



# Open Source Used In Stealthwatch UDP Director 6.9.1

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## Contents

### **1.1 aes 16-04-07**

1.1.1 Available under license

### **1.2 angular-seed master**

1.2.1 Available under license

### **1.3 AngularJS 1.1.5**

1.3.1 Available under license

### **1.4 AngularJS 1.2 :1**

1.4.1 Available under license

### **1.5 AngularJS\_Apache 1.2 :1**

1.5.1 Available under license

### **1.6 AngularJS\_Apachev2 1.1.5**

1.6.1 Available under license

### **1.7 AngularJS\_MPL1.0 1.1.5**

1.7.1 Available under license

### **1.8 aopalliance 1.0 :1jpp**

1.8.1 Available under license

### **1.9 Apache Commons Logging 1.2**

1.9.1 Available under license

### **1.10 Apache Tomcat 5.5.26**

1.10.1 Available under license

### **1.11 apparmor 2.7.102-0ubuntu3.10**

1.11.1 Available under license

### **1.12 audit 2.2**

1.12.1 Available under license

### **1.13 avalon-logkit 1.2 :8.2.el6**

1.13.1 Notifications

- 1.13.2 Available under license
- 1.14 awesome-start master**
  - 1.14.1 Available under license
- 1.15 Berkeley DB 5.2.36**
  - 1.15.1 Available under license
- 1.16 bind 9.9.5 :r0.0**
  - 1.16.1 Available under license
- 1.17 boost 1.59.0 :1.59**
  - 1.17.1 Available under license
- 1.18 bzip2 1.0.6**
  - 1.18.1 Available under license
- 1.19 cglib 2.2**
  - 1.19.1 Available under license
- 1.20 cifs-utils 6.2 :7.el7**
  - 1.20.1 Available under license
- 1.21 ClassMate 1.0.0 :(15-Oct-2013)**
  - 1.21.1 Available under license
- 1.22 Commons DBCP 1.2.2**
  - 1.22.1 Available under license
- 1.23 Commons Logging 1.1.1**
  - 1.23.1 Available under license
- 1.24 Commons-cli 1.4**
  - 1.24.1 Available under license
- 1.25 commons-codec 1.2**
  - 1.25.1 Notifications
  - 1.25.2 Available under license
- 1.26 commons-collections 3.2**
  - 1.26.1 Available under license
- 1.27 commons-daemon 1.0.3**
  - 1.27.1 Available under license
- 1.28 commons-daemon 1.0.15**
  - 1.28.1 Available under license
- 1.29 commons-el 1.0**
  - 1.29.1 Notifications
  - 1.29.2 Available under license
- 1.30 commons-fileupload 1.3.1**
  - 1.30.1 Available under license
- 1.31 commons-fileupload 1.2.2 :wso2v1**
  - 1.31.1 Available under license

- 1.32 commons-io 2.4**
  - 1.32.1 Available under license
- 1.33 commons-lang 2.3**
  - 1.33.1 Available under license
- 1.34 commons-lang3 3.3**
  - 1.34.1 Available under license
- 1.35 commons-modeler 2.0**
  - 1.35.1 Available under license
- 1.36 commons-pool 1.2**
  - 1.36.1 Available under license
- 1.37 coreutils 8.22 :r0.0**
  - 1.37.1 Available under license
- 1.38 corosync 2.3.3 :1ubuntu1**
  - 1.38.1 Available under license
- 1.39 cpio 2.11 :r3**
  - 1.39.1 Available under license
- 1.40 cracklib 2.9.2**
  - 1.40.1 Available under license
- 1.41 cups 1.7.5-11+deb8u1**
  - 1.41.1 Available under license
- 1.42 curl 7.38.0**
  - 1.42.1 Available under license
- 1.43 Curl 7.12.3**
  - 1.43.1 Available under license
- 1.44 cwidget 0.5.16 :3.4ubuntu2**
  - 1.44.1 Available under license
- 1.45 cyrus-sasl 2.1.26**
  - 1.45.1 Available under license
- 1.46 cyrus-sasl/apsl subpart 2.1.26**
  - 1.46.1 Available under license
- 1.47 cyrus-sasl/cmu subpart 2.1.26**
  - 1.47.1 Notifications
  - 1.47.2 Available under license
- 1.48 cyrus-sasl/eric young subpart 2.1.26**
  - 1.48.1 Notifications
  - 1.48.2 Available under license
- 1.49 dash 0.5.7-4ubuntu1**
  - 1.49.1 Available under license
- 1.50 dash 0.5.5.1**

- 1.50.1 Available under license
- 1.51 dbus-1 1.8.10**
  - 1.51.1 Available under license
- 1.52 dbus-glib 0.102-1**
  - 1.52.1 Available under license
- 1.53 dhcp 4.3.2**
  - 1.53.1 Available under license
- 1.54 diffutils 3.3**
  - 1.54.1 Available under license
- 1.55 dpkg 1.17.25**
  - 1.55.1 Available under license
- 1.56 e2fsprogs 1.43.3**
  - 1.56.1 Available under license
- 1.57 e2fsprogs 1.41.14**
  - 1.57.1 Available under license
- 1.58 ecj 3.5.1**
  - 1.58.1 Available under license
- 1.59 ethtool 3.16**
  - 1.59.1 Available under license
- 1.60 expat 2.1.0**
  - 1.60.1 Available under license
- 1.61 external/zopfli 24r4**
  - 1.61.1 Available under license
- 1.62 fastinfoset 1.2.2**
  - 1.62.1 Available under license
- 1.63 fastjar 0.98-3 :2009-09-06 Arthur Loiret**
  - 1.63.1 Available under license
- 1.64 FCGI 0.74 :1.e16**
  - 1.64.1 Available under license
- 1.65 file 5.22**
  - 1.65.1 Available under license
- 1.66 findutils 4.4.2**
  - 1.66.1 Available under license
- 1.67 fontconfig 2.11.0 :0ubuntu4.2**
  - 1.67.1 Available under license
- 1.68 freetype 2.5.2-1ubuntu2.1 :1ubuntu2.1**
  - 1.68.1 Available under license
- 1.69 fuse 2.9.3**
  - 1.69.1 Available under license

- 1.70 gcc-4.9 4.9.2-10**
  - 1.70.1 Available under license
- 1.71 gdbm 1.8.3 :1.0.1.0501961**
  - 1.71.1 Available under license
- 1.72 gettext 0.17**
  - 1.72.1 Available under license
- 1.73 glib-2.0 2.42.1**
  - 1.73.1 Available under license
- 1.74 glibc 2.19-18+deb8u1**
  - 1.74.1 Available under license
- 1.75 gmp 6.0.0 :r0.0**
  - 1.75.1 Available under license
- 1.76 gnupg 1.4.18-7**
  - 1.76.1 Available under license
- 1.77 gnutls28 3.3.8-6+deb8u3**
  - 1.77.1 Available under license
- 1.78 golang 1-5**
  - 1.78.1 Available under license
- 1.79 golang/debian 1-5**
  - 1.79.1 Available under license
- 1.80 googleappengine 1.9.48**
  - 1.80.1 Available under license
- 1.81 grep 2.20-4.1**
  - 1.81.1 Available under license
- 1.82 groff 1.22.2-8**
  - 1.82.1 Available under license
- 1.83 groovy 2.4.4**
  - 1.83.1 Available under license
- 1.84 grub2 2.02~beta2 :9ubuntu1**
  - 1.84.1 Available under license
- 1.85 Gson 2.2.4**
  - 1.85.1 Available under license
- 1.86 guava 18.0**
  - 1.86.1 Available under license
- 1.87 guava 13.0.1**
  - 1.87.1 Available under license
- 1.88 gzip 1.6-4**
  - 1.88.1 Available under license
- 1.89 hdparm 9.43 :r500.0**

- 1.89.1 Available under license
- 1.90 heimdal 1.6 :2**
  - 1.90.1 Available under license
- 1.91 hibernate-validator 5.1.0**
  - 1.91.1 Available under license
- 1.92 hibernate-validator\_utils 5.1.0**
  - 1.92.1 Available under license
- 1.93 HSQLDB 2.3.2**
  - 1.93.1 Available under license
- 1.94 httpcomponents-client 4.3.3**
  - 1.94.1 Available under license
- 1.95 httpcomponents-core 4.3.3**
  - 1.95.1 Available under license
- 1.96 httpcomponents-httpclient 4.5.1**
  - 1.96.1 Available under license
- 1.97 Iconv 2.0**
  - 1.97.1 Available under license
- 1.98 icu 52.1-n**
  - 1.98.1 Available under license
- 1.99 ipmitool 1.8.15 :1.0**
  - 1.99.1 Available under license
- 1.100 ipmiutil 2.8.4**
  - 1.100.1 Available under license
- 1.101 iproute2 4.1.1**
  - 1.101.1 Available under license
- 1.102 iproute2 3.16.0 :r0.0**
  - 1.102.1 Available under license
- 1.103 iptables 1.4.21 :r0.0**
  - 1.103.1 Available under license
- 1.104 iputils s20121221 :r0.0**
  - 1.104.1 Available under license
- 1.105 istack-commons 2.17 :4.e17**
  - 1.105.1 Available under license
- 1.106 Jackson 2.2.2 :26-May-2013**
  - 1.106.1 Available under license
- 1.107 jackson-annotations 2.4.0**
  - 1.107.1 Available under license
- 1.108 Jackson-annotations 2.4.6**
  - 1.108.1 Available under license

- 1.109 jackson-core 2.4.3**
  - 1.109.1 Available under license
- 1.110 jackson-core 2.4.6**
  - 1.110.1 Available under license
- 1.111 jackson-core 2.7.1**
  - 1.111.1 Available under license
- 1.112 jackson-databind 2.4.1.1**
  - 1.112.1 Available under license
- 1.113 jackson-databind 2.4.3**
  - 1.113.1 Available under license
- 1.114 jackson-databind 2.4.5**
  - 1.114.1 Available under license
- 1.115 JavaBeans Activation Framework (JAF) 1.1**
  - 1.115.1 Available under license
- 1.116 Javassist 3.18.2-GA**
  - 1.116.1 Available under license
- 1.117 JAXB 2.1.11**
  - 1.117.1 Available under license
- 1.118 jboss logging 3.3.0**
  - 1.118.1 Available under license
- 1.119 jersey 1.7**
  - 1.119.1 Available under license
- 1.120 Jetty 9.0.2 :Jetty Bundles 9.0.2.v20130417**
  - 1.120.1 Available under license
- 1.121 jna 3.4.0**
  - 1.121.1 Available under license
- 1.122 jQuery 1.9.1**
  - 1.122.1 Available under license
- 1.123 jquery-ui 1.9.2**
  - 1.123.1 Available under license
- 1.124 jQueryUi 1.8.16**
  - 1.124.1 Available under license
- 1.125 json-simple 1.1**
  - 1.125.1 Available under license
- 1.126 JSP 2.1**
  - 1.126.1 Available under license
- 1.127 jsp-api 2.2**
  - 1.127.1 Available under license
- 1.128 jsr305 2.0.1**



1.128.1 Available under license  
**1.129 Kerberos 5 1.12.1**  
1.129.1 Available under license  
**1.130 kernel 3.16.1**  
1.130.1 Available under license  
**1.131 keyutils 1.5.9-5**  
1.131.1 Available under license  
**1.132 kmod 18-3**  
1.132.1 Available under license  
**1.133 ldb 1:1.1.16-1 :1**  
1.133.1 Available under license  
**1.134 less 458-3**  
1.134.1 Available under license  
**1.135 libasyncns 0.8 :1.1.el6**  
1.135.1 Available under license  
**1.136 libcap 2.24**  
1.136.1 Available under license  
**1.137 libdnet 1.12 :13.1.el7**  
1.137.1 Available under license  
**1.138 libedit 3.1**  
1.138.1 Available under license  
**1.139 libesmtp 1.0.6 :7.el7**  
1.139.1 Available under license  
**1.140 libffi 3.1 :r0.0**  
1.140.1 Available under license  
**1.141 libffi 3.0.6 :ICS**  
1.141.1 Available under license  
**1.142 libgcrypt 1.5.3 :r0**  
1.142.1 Available under license  
**1.143 libicu 4.0 :7.24.11**  
1.143.1 Available under license  
**1.144 libidn 1.29-1**  
1.144.1 Available under license  
**1.145 libjpeg-turbo 8d+1.3.1-r0**  
1.145.1 Notifications  
1.145.2 Available under license  
**1.146 libjson 0.11-2**  
1.146.1 Available under license  
**1.147 libnet 1.1.4 :2.1**

1.147.1 Available under license  
**1.148 libnuma1 2.0.8~rc3 :1.0**  
1.148.1 Available under license  
**1.149 libpcap 1.6.2 :1.0**  
1.149.1 Available under license  
**1.150 libpng 1.2.50-2+deb8u2**  
1.150.1 Available under license  
**1.151 libssh2 1.4.3-4.1**  
1.151.1 Available under license  
**1.152 libtasn1-6 4.2-3+deb8u1**  
1.152.1 Available under license  
**1.153 libtool 2.4.2 :r6.0.0**  
1.153.1 Available under license  
**1.154 libusb 0.1.12**  
1.154.1 Available under license  
**1.155 libx11 1.6.2 :1ubuntu2**  
1.155.1 Available under license  
**1.156 libxcb 1.10 :r0.0**  
1.156.1 Available under license  
**1.157 libxcursor 1.1.14 :1**  
1.157.1 Available under license  
**1.158 libxext 2:1.3.3-1**  
1.158.1 Available under license  
**1.159 libXi 1.7.4 :1.e16**  
1.159.1 Available under license  
**1.160 libxml2 2.9.1 :2.0.5.20131002**  
1.160.1 Available under license  
**1.161 libxslt 1.1.28**  
1.161.1 Available under license  
**1.162 libXt 1.1.4 :6.1.e16**  
1.162.1 Available under license  
**1.163 libXtst 1.2.2 :2.1.e17**  
1.163.1 Available under license  
**1.164 libyami 0.1.6 :1**  
1.164.1 Available under license  
**1.165 lm\_sensors 2.8.7 :2**  
1.165.1 Available under license  
**1.166 logback 1.1.3**  
1.166.1 Available under license

- 1.167 logrotate 3.8.7 :1ubuntu1**
  - 1.167.1 Available under license
- 1.168 lsof 4.86+dfsg-1**
  - 1.168.1 Available under license
- 1.169 lvm2 2.02.111 :2.el6**
  - 1.169.1 Available under license
- 1.170 mawk 1.3.3-17**
  - 1.170.1 Available under license
- 1.171 mimepull 1.6**
  - 1.171.1 Available under license
- 1.172 MPFR 3.1.2**
  - 1.172.1 Available under license
- 1.173 mx4j 3.0.1**
  - 1.173.1 Notifications
  - 1.173.2 Available under license
- 1.174 mybatis 3.1.1**
  - 1.174.1 Available under license
- 1.175 nano 2.2.6 :1.0**
  - 1.175.1 Available under license
- 1.176 ncurses 5.9**
  - 1.176.1 Available under license
- 1.177 ncurses 5.7**
  - 1.177.1 Available under license
- 1.178 net-snmp 5.7.2 :18.el7**
  - 1.178.1 Notifications
  - 1.178.2 Available under license
- 1.179 net-tools 1.60**
  - 1.179.1 Available under license
- 1.180 NetBSD kernel 1.6**
  - 1.180.1 Available under license
- 1.181 nettle 2.7.1 :1**
  - 1.181.1 Available under license
- 1.182 newt 0.52.17-1**
  - 1.182.1 Available under license
- 1.183 nginx 1.10.1**
  - 1.183.1 Available under license
- 1.184 nss 3.12.8**
  - 1.184.1 Available under license
- 1.185 nss 3.23 :r0**

- 1.185.1 Available under license
- 1.186 ognl 2.6.9**
  - 1.186.1 Available under license
- 1.187 openipmi 2.0.16-1ubuntu1**
  - 1.187.1 Available under license
- 1.188 openjdk-8 1.8.0 :51**
  - 1.188.1 Available under license
- 1.189 openldap 2.4.40**
  - 1.189.1 Available under license
- 1.190 openssh 6.7p1 :20131006**
  - 1.190.1 Available under license
- 1.191 openssl 1.0.0e**
  - 1.191.1 Notifications
  - 1.191.2 Available under license
- 1.192 OpenSSL 1.0.2g :1**
  - 1.192.1 Notifications
  - 1.192.2 Available under license
- 1.193 openssl 1.0.1t :1**
  - 1.193.1 Notifications
  - 1.193.2 Available under license
- 1.194 pacemaker 1.1.12 :Feb 13 2014 David Vossel**
  - 1.194.1 Available under license
- 1.195 pacemaker-libs 1.1.12 :Feb 13 2014 David Vossel**
  - 1.195.1 Available under license
- 1.196 pam 1.1.8-3.1**
  - 1.196.1 Available under license
- 1.197 parted 3.2 :r1.2.3**
  - 1.197.1 Available under license
- 1.198 patch 2.7.5 :1**
  - 1.198.1 Available under license
- 1.199 pciutils 3.2.1 :r0.0**
  - 1.199.1 Available under license
- 1.200 pcre 8.11**
  - 1.200.1 Available under license
- 1.201 pcre 8.35 :04-April-2014**
  - 1.201.1 Available under license
- 1.202 pcsc-lite 1.8.10 :1.fc20**
  - 1.202.1 Available under license
- 1.203 perl 5.20.2 :1.0**

- 1.203.1 Available under license
- 1.204 pigz 2.2.5 :1.el5**
  - 1.204.1 Available under license
- 1.205 popt 1.16 :7ubuntu3**
  - 1.205.1 Available under license
- 1.206 procps 1:3.3.9-1ubuntu2.2**
  - 1.206.1 Available under license
- 1.207 Pull API for parsing MIME messages - MIMEpull 1.6**
  - 1.207.1 Available under license
- 1.208 PuTTY 0.58**
  - 1.208.1 Available under license
- 1.209 Python 3.4.1**
  - 1.209.1 Available under license
- 1.210 python 2.7.9 :r1.4**
  - 1.210.1 Available under license
- 1.211 PyYAML 3.11**
  - 1.211.1 Available under license
- 1.212 rapidxml 1.13**
  - 1.212.1 Available under license
- 1.213 rdmacm 1.0.19.1-1**
  - 1.213.1 Available under license
- 1.214 readline 5.2 :ASA**
  - 1.214.1 Available under license
- 1.215 readline 5.1**
  - 1.215.1 Available under license
- 1.216 readline 6.3**
  - 1.216.1 Available under license
- 1.217 rsync 3.1.1-3**
  - 1.217.1 Available under license
- 1.218 rtmpdump 2.4+20151223.gitfa8646d :1build1**
  - 1.218.1 Available under license
- 1.219 SAAJ 1.2.2**
  - 1.219.1 Available under license
- 1.220 samba 4.2.3 :10.el7**
  - 1.220.1 Available under license
- 1.221 sed 4.2.2 :3.0**
  - 1.221.1 Available under license
- 1.222 selinux-policy 2.4.6 :255.el5\_4.4**
  - 1.222.1 Available under license

- 1.223 servlet-api 3.0-alpha-1 :3.0**
  - 1.223.1 Available under license
- 1.224 servlet-api 2.3**
  - 1.224.1 Notifications
  - 1.224.2 Available under license
- 1.225 shadow 4.2.1 :r0.1.2**
  - 1.225.1 Available under license
- 1.226 shadow 4.2.1 :r0.0**
  - 1.226.1 Available under license
- 1.227 sitemesh 2.4.2**
  - 1.227.1 Notifications
  - 1.227.2 Available under license
- 1.228 sjspx 1.0.1**
  - 1.228.1 Available under license
- 1.229 slang 2.2.4 :11.e17**
  - 1.229.1 Available under license
- 1.230 slf4j 1.6.1**
  - 1.230.1 Available under license
- 1.231 slf4j 1.6.6**
  - 1.231.1 Available under license
- 1.232 SnakeYAML 1.12**
  - 1.232.1 Available under license
- 1.233 spring framework 4.2.4**
  - 1.233.1 Available under license
- 1.234 spring framework 3.1.3 :3.1.3**
  - 1.234.1 Available under license
- 1.235 spring-asm 3.0.3.RELEASE**
  - 1.235.1 Available under license
- 1.236 spring-beans 4.2.5.RELEASE**
  - 1.236.1 Available under license
- 1.237 spring-core 4.2.5.RELEASE**
  - 1.237.1 Available under license
- 1.238 spring-expression 4.2.5.RELEASE**
  - 1.238.1 Available under license
- 1.239 spring-jdbc 4.2.5.RELEASE**
  - 1.239.1 Available under license
- 1.240 spring-jdbc 3.1.3**
  - 1.240.1 Available under license
- 1.241 spring-security-config 3.1.4.RELEASE**

- 1.241.1 Available under license
- 1.242 spring-security-core 3.1.4.RELEASE**
  - 1.242.1 Available under license
- 1.243 spring-security-web 3.1.4.RELEASE**
  - 1.243.1 Available under license
- 1.244 spring-security-web 4.0.3.RELEASE**
  - 1.244.1 Available under license
- 1.245 spring-tx 4.2.5.RELEASE**
  - 1.245.1 Available under license
- 1.246 spring-tx 3.2.1**
  - 1.246.1 Available under license
- 1.247 spring-webmvc 3.2.4**
  - 1.247.1 Available under license
- 1.248 sqlite3 3.8.7.1-1+deb8u1**
  - 1.248.1 Available under license
- 1.249 stax2 4.0**
  - 1.249.1 Available under license
- 1.250 sudo 1.8.10p3-1+deb8u3**
  - 1.250.1 Available under license
- 1.251 swagger 2.0.39**
  - 1.251.1 Available under license
- 1.252 syslog-ng 3.5.6 :1.el7**
  - 1.252.1 Available under license
- 1.253 syslog-ng\_LGPLv2.1 3.5.6**
  - 1.253.1 Available under license
- 1.254 syslog-ng\_MPLv1.1 3.5.6**
  - 1.254.1 Available under license
- 1.255 systemd 215-17+deb8u2**
  - 1.255.1 Available under license
- 1.256 taglibs-standard 1.2.5**
  - 1.256.1 Available under license
- 1.257 tar 1.26**
  - 1.257.1 Available under license
- 1.258 tar 1.27.1 :1**
  - 1.258.1 Available under license
- 1.259 tcpdump 4.6.2 :Sep. 2, 2014 mcr@sandelman.ca**
  - 1.259.1 Available under license
- 1.260 tdb 1.3.8 :2**
  - 1.260.1 Available under license

**1.261 Tomcat 5.5.20**

1.261.1 Available under license

**1.262 Tomcat 7.0.29**

1.262.1 Available under license

**1.263 tomcat-jdbc 7.0.47**

1.263.1 Available under license

**1.264 traceroute 2.0.20**

1.264.1 Available under license

**1.265 underscore.js 1.4.4**

1.265.1 Available under license

**1.266 unixODBC 2.3.1 :2.3.1**

1.266.1 Available under license

**1.267 unzip 6.0**

1.267.1 Available under license

**1.268 util-linux 2.25**

1.268.1 Available under license

**1.269 vim 7.4.488 :James McCoy 04 Nov 2014**

**1.270 vixie-cron 3.0.1 :69**

1.270.1 Available under license

**1.271 vmguestlib 0.1.2**

1.271.1 Available under license

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**1.273 wget 1.16**

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**1.274 wsdl4j 1.6.3**

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1.278.1 Notifications

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**1.279 xinetd 2.3.15**

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**1.280 xml-commons-resolver 1.1**



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### **1.281 xmlsec-java 2.0.6**

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### **1.282 xz 5.1.2 :9alpha.el7**

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### **1.283 zlib 1.2.3**

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## **1.1 aes 16-04-07**

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*
* // Use like so:
* htmlParser(htmlString, {
*   start: function(tag, attrs, unary) {},
*   end: function(tag) {},
*   chars: function(text) {},
*   comment: function(text) {}
* });
*
*/

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 * http://erik.eae.net/simplehtmlparser/simplehtmlparser.js
 *
 * // Use like so:
 * htmlParser(htmlString, {
 *   start: function(tag, attrs, unary) {},
 *   end: function(tag) {},
 *   chars: function(text) {},
 *   comment: function(text) {}
 * });
 */
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```
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// File : FillNode.aspx
// Author : Eric Woodruff (Eric@EWoodruff.us)
// Updated : 04/02/2008
// Note : Copyright 2007-2008, Eric Woodruff, All rights reserved
// Compiler: Microsoft C#
//
// This file contains the code used to dynamically load a parent node with its
// child table of content nodes when first expanded.
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Redistribution terms                                  Automated Testing Framework

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- \* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

- \* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision `3a0982da308228d796df35f98d787c5cff2bb5b6`.

Author: Julio Merino <jmmv@NetBSD.org>

- \* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`:

These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
```

## 1.17 boost 1.59.0 :1.59

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```
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```

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Examples:

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--- end ---

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.  
Thomas Funke (thf@zelator.in-berlin.de(?)) and  
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.  
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.  
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader  
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and  
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and  
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.  
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.  
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to  
a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to  
nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the  
code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the  
current typed allocation facility. (His dynamic type inference code hasn't  
made it into the released version of the collector, yet.)  
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on  
Wed, 17 July 2002, 19:27:00 +0400.

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```

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```

```
ECHO = /bin/echo
```

```
all:
```

```

@${ECHO} "<boost-root>/libs/iterator/doc/GNUMakefile should be replaced by"
@${ECHO}
@${ECHO} " http://www.boost-consulting.com/writing/GNUMakefile,"
@${ECHO}
@${ECHO} "before proceeding. That file is not included in the Boost"
@${ECHO} "distribution because it is licensed under the GPL, which violates"
@${ECHO} "Boost license requirements."

```

## 1.18 bzip2 1.0.6

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/\*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

\*/

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

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

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

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

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

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```
/* Copyright (C) 1996 Bob Jenkins (bob_jenkins@burtleburtle.net)
```

```
*
```

```
* http://burtleburtle.net/bob/hash/
```

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```

```
* hash(), hash2(), hash3, and mix() are externally useful functions.
```

```
* Routines to test the hash are included if SELF_TEST is defined.
```

```
* You can use this free for any purpose. It has no warranty.
```

```
*
```

```
* Copyright (C) 2003 David S. Miller (davem@redhat.com)
```

```
*
```

```
* I've modified Bob's hash to be useful in the Linux kernel, and
```

```
* any bugs present are surely my fault. -DaveM
```

\*/

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## 1.39 cpio 2.11 :r3

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## 1.40 cracklib 2.9.2

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```
-----
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in released code until Nov 2009 - slow release cycle...)
-----
```

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```
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
```

```
Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike
```

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a

> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20

GPL-2 ... it was a modified artistic license ... i didnt notice the license=

=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=

eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =

a=20



library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done

>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable  
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,  
GPLv2 with the option of using the library under a later version of the  
GPL would permit applications which were released under version 3 of the  
GPL to use the library, too, which would be sufficient for the packages  
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.  
>>  
>> I am sympathetic. Guys, what do you reckon?  
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>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...  
>  
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> timeframe.  
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> GPLv2 with the option of using the library under a later version of the  
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> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>  
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the  
interests of wider acceptance and more modern licensing, it was switched with

the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----

From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com

X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]

Status: RO

Content-Length: 585

Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umr.edu>

> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk

>

> Any chance you could write me a self-contained email stating clearly

> that the license is being changed to GPL, so I could include that

> email

> in the repository and clean up the repository/tarballs? I have all the

> original discussion, but something succinct and self contained

> would be

> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

## GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

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

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

^L

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use

this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data

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

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

^L

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

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

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

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

^L

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

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

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

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its purpose remains meaningful.

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

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

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usr/bin/lpq

usr/bin/lpr  
usr/bin/lprm  
usr/share/man/man1/lpr.1.gz  
usr/share/man/man1/lprm.1.gz  
usr/share/man/man1/lpq.1.gz  
usr/share/man/man8/lpc.8.gz  
Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>  
Upstream-Name: CUPS  
Upstream-Contact: Michael Sweet <[msweet@apple.com](mailto:msweet@apple.com)>  
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Files: \*

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## 1.42 curl 7.38.0

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License Mixing with apps, libcurl and Third Party Libraries

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libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl



instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

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Heimdal <http://www.pdc.kth.se/heimdal/>

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libidn <http://josefsson.org/libidn/>

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OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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## 1.43 Curl 7.12.3

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```
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# This comes from X11R5 (mit/util/scripts/install.sh).
#
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#
# Calling this script install-sh is preferred over install.sh, to prevent
# 'make' implicit rules from creating a file called install from it
# when there is no Makefile.
#
# This script is compatible with the BSD install script, but was written
# from scratch. It can only install one file at a time, a restriction
# shared with many OS's install programs.

# Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2005
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/*****
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* Project      _ _ _ _ _
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*
* $Id: base64.c,v 1.35 2005/03/31 07:02:03 bagder Exp $
*****/
/* =====
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## 1.44 cwidget 0.5.16 :3.4ubuntu2

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Version 2, June 1991

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<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text> &#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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## 1.54 diffutils 3.3

### 1.54.1 Available under license :

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```

```
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```

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

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```
@end display
```

```
@enumerate 0
@item
PREAMBLE
```

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Theodore Ts'o  
23-June-2007

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.  
+ trivial database library - standalone version

- trivial database library - private includes

-

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;'/'\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$\$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$\$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM) -rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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Gadi Oxman, August 1995

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```

```
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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Theodore Ts'o  
23-June-2007

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It is part of the main e2fsprogs distribution, which can be found at:

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## 1.58 ecj 3.5.1

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## 1.63 fastjar 0.98-3 :2009-09-06 Arthur Loiret

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.66 findutils 4.4.2

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## 1.69 fuse 2.9.3

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```

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Version 3.1, 31 March 2009

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/\* Software floating-point emulation.

Convert a 32bit unsigned integer to IEEE double

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## 1.71 gdbm 1.8.3 :1.0.1.0501961

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## 1.72 gettext 0.17

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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#### Appendix: How to Apply These Terms to Your New Libraries

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

the library.

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

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

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

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

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

@iftex

@unnumberedsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

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@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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

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

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

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

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

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@unnumberedsubsec Appendix: How to Apply These Terms to Your New Programs

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

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

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@end smallexample



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

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

```
@smallexample
Gnomovision version 69, Copyright (C) 19@var{yy} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

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

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

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

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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## 1.73 glib-2.0 2.42.1

### 1.73.1 Available under license :

```
/*  
 * Perl-Compatible Regular Expressions *  
***/
```

```
/* This is the public header file for the PCRE library, to be #included by  
applications that call the PCRE functions.
```

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-----  
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-----  
\*/

```
#ifndef _PCRE_H
#define _PCRE_H
```

```
/* The current PCRE version information. */
```

```
#define PCRE_MAJOR      8
#define PCRE_MINOR      31
#define PCRE_PRERELEASE
#define PCRE_DATE       2012-07-06
```

```
/* When an application links to a PCRE DLL in Windows, the symbols that are imported have to be identified as such. When building PCRE, the appropriate export setting is defined in pcre_internal.h, which includes this file. So we don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */
```

```
#if defined(_WIN32) && !defined(PCRE_STATIC)
#  ifndef PCRE_EXP_DECL
#    define PCRE_EXP_DECL extern __declspec(dllexport)
#  endif
#  ifdef __cplusplus
#    ifndef PCRECPP_EXP_DECL
#      define PCRECPP_EXP_DECL extern __declspec(dllexport)
#    endif
#    ifndef PCRECPP_EXP_DEFN
#      define PCRECPP_EXP_DEFN __declspec(dllexport)
#    endif
#  endif
# endif
#endif
```

```
/* By default, we use the standard "extern" declarations. */
```

```
#ifndef PCRE_EXP_DECL
#  ifdef __cplusplus
#    define PCRE_EXP_DECL extern "C"
#  else
#    define PCRE_EXP_DECL extern
#  endif
#endif
```

```

#ifdef __cplusplus
# ifndef PCRECPP_EXP_DECL
#  define PCRECPP_EXP_DECL extern
# endif
# ifndef PCRECPP_EXP_DEFN
#  define PCRECPP_EXP_DEFN
# endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for
compile, but is subsequently referenced in exec and/or DFA exec. Any of the
compile-time options may be inspected during studying (and therefore JIT
compiling). */

#define PCRE_CASELESS      0x00000001 /* Compile */
#define PCRE_MULTILINE    0x00000002 /* Compile */
#define PCRE_DOTALL      0x00000004 /* Compile */
#define PCRE_EXTENDED     0x00000008 /* Compile */
#define PCRE_ANCHORED    0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA       0x00000040 /* Compile */
#define PCRE_NOTBOL      0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL      0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY    0x00000200 /* Compile */
#define PCRE_NOTEMPTY    0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8        0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16       0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */

```

```

#define PCRE_AUTO_CALLOUT    0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT    0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL        0x00008000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST   0x00010000 /* DFA exec */
#define PCRE_DFA_RESTART    0x00020000 /* DFA exec */
#define PCRE_FIRSTLINE      0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES       0x00080000 /* Compile */
#define PCRE_NEWLINE_CR     0x00100000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF     0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF   0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY    0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF    0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE    0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD    0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP            0x20000000 /* Compile, used in exec, DFA exec */

```

```

/* Exec-time and get/set-time error codes */

```

```

#define PCRE_ERROR_NOMATCH    (-1)
#define PCRE_ERROR_NULL      (-2)
#define PCRE_ERROR_BADOPTION  (-3)
#define PCRE_ERROR_BADMAGIC  (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY  (-6)
#define PCRE_ERROR_NOSUBSTRING (-7)
#define PCRE_ERROR_MATCHLIMIT (-8)
#define PCRE_ERROR_CALLOUT    (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8     (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16    (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL    (-12)
#define PCRE_ERROR_BADPARTIAL (-13)
#define PCRE_ERROR_INTERNAL    (-14)
#define PCRE_ERROR_BADCOUNT  (-15)
#define PCRE_ERROR_DFA_UITEM  (-16)
#define PCRE_ERROR_DFA_UCOND  (-17)
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT (-22) /* No longer actually used */

```

```

#define PCRE_ERROR_BADNEWLINE    (-23)
#define PCRE_ERROR_BADOFFSET    (-24)
#define PCRE_ERROR_SHORTUTF8    (-25)
#define PCRE_ERROR_SHORTUTF16   (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE      (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

```

/\* Specific error codes for UTF-8 validity checks \*/

```

#define PCRE_UTF8_ERR0      0
#define PCRE_UTF8_ERR1      1
#define PCRE_UTF8_ERR2      2
#define PCRE_UTF8_ERR3      3
#define PCRE_UTF8_ERR4      4
#define PCRE_UTF8_ERR5      5
#define PCRE_UTF8_ERR6      6
#define PCRE_UTF8_ERR7      7
#define PCRE_UTF8_ERR8      8
#define PCRE_UTF8_ERR9      9
#define PCRE_UTF8_ERR10     10
#define PCRE_UTF8_ERR11     11
#define PCRE_UTF8_ERR12     12
#define PCRE_UTF8_ERR13     13
#define PCRE_UTF8_ERR14     14
#define PCRE_UTF8_ERR15     15
#define PCRE_UTF8_ERR16     16
#define PCRE_UTF8_ERR17     17
#define PCRE_UTF8_ERR18     18
#define PCRE_UTF8_ERR19     19
#define PCRE_UTF8_ERR20     20
#define PCRE_UTF8_ERR21     21

```

/\* Specific error codes for UTF-16 validity checks \*/

```

#define PCRE_UTF16_ERR0      0
#define PCRE_UTF16_ERR1      1
#define PCRE_UTF16_ERR2      2
#define PCRE_UTF16_ERR3      3
#define PCRE_UTF16_ERR4      4

```

/\* Request types for pcre\_fullinfo() \*/

```

#define PCRE_INFO_OPTIONS      0
#define PCRE_INFO_SIZE         1
#define PCRE_INFO_CAPTURECOUNT 2

```

```

#define PCRE_INFO_BACKREFMAX    3
#define PCRE_INFO_FIRSTBYTE     4
#define PCRE_INFO_FIRSTCHAR     4 /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE    5
#define PCRE_INFO_LASTLITERAL   6
#define PCRE_INFO_NAMEENTRYSIZE 7
#define PCRE_INFO_NAMECOUNT    8
#define PCRE_INFO_NAMETABLE     9
#define PCRE_INFO_STUDYSIZE     10
#define PCRE_INFO_DEFAULT_TABLES 11
#define PCRE_INFO_OKPARTIAL     12
#define PCRE_INFO_JCHANGED      13
#define PCRE_INFO_HASCORLRF     14
#define PCRE_INFO_MINLENGTH     15
#define PCRE_INFO_JIT           16
#define PCRE_INFO_JITSIZE       17
#define PCRE_INFO_MAXLOOKBEHIND 18

```

/\* Request types for pcre\_config(). Do not re-arrange, in order to remain compatible. \*/

```

#define PCRE_CONFIG_UTF8        0
#define PCRE_CONFIG_NEWLINE     1
#define PCRE_CONFIG_LINK_SIZE   2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT 4
#define PCRE_CONFIG_STACKRECURSE 5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR         8
#define PCRE_CONFIG_JIT         9
#define PCRE_CONFIG_UTF16       10
#define PCRE_CONFIG_JITTARGET   11

```

/\* Request types for pcre\_study(). Do not re-arrange, in order to remain compatible. \*/

```

#define PCRE_STUDY_JIT_COMPILE      0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

```

/\* Bit flags for the pcre[16]\_extra structure. Do not re-arrange or redefine these bits, just add new ones on the end, in order to remain compatible. \*/

```

#define PCRE_EXTRA_STUDY_DATA      0x0001
#define PCRE_EXTRA_MATCH_LIMIT     0x0002
#define PCRE_EXTRA_CALLOUT_DATA    0x0004
#define PCRE_EXTRA_TABLES          0x0008

```

```

#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK 0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT 0x0040

/* Types */

struct real_pcre; /* declaration; the definition is private */
typedef struct real_pcre pcre;

struct real_pcre16; /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such a way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

typedef struct pcre_extra {
    unsigned long int flags; /* Bits for which fields are set */
    void *study_data; /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data; /* Data passed back in callouts */
    const unsigned char *tables; /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */

```



```

unsigned char **mark;      /* For passing back a mark pointer */
void *executable_jit;     /* Contains a pointer to a compiled jit code */
} pcre_extra;

```

/\* Same structure as above, but with 16 bit char pointers. \*/

```

typedef struct pcre16_extra {
    unsigned long int flags;      /* Bits for which fields are set */
    void *study_data;           /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data;         /* Data passed back in callouts */
    const unsigned char *tables; /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */
    PCRE_UCHAR16 **mark;        /* For passing back a mark pointer */
    void *executable_jit;       /* Contains a pointer to a compiled jit code */
} pcre16_extra;

```

/\* The structure for passing out data via the pcre\_callout\_function. We use a structure so that new fields can be added on the end in future versions, without changing the API of the function, thereby allowing old clients to work without modification. \*/

```

typedef struct pcre_callout_block {
    int    version;           /* Identifies version of block */
    /* ----- Version 0 ----- */
    int    callout_number;    /* Number compiled into pattern */
    int    *offset_vector;    /* The offset vector */
    PCRE_SPTR  subject;      /* The subject being matched */
    int    subject_length;    /* The length of the subject */
    int    start_match;       /* Offset to start of this match attempt */
    int    current_position;  /* Where we currently are in the subject */
    int    capture_top;       /* Max current capture */
    int    capture_last;      /* Most recently closed capture */
    void   *callout_data;     /* Data passed in with the call */
    /* ----- Added for Version 1 ----- */
    int    pattern_position;  /* Offset to next item in the pattern */
    int    next_item_length;  /* Length of next item in the pattern */
    /* ----- Added for Version 2 ----- */
    const unsigned char *mark; /* Pointer to current mark or NULL */
    /* ----- */
} pcre_callout_block;

```

/\* Same structure as above, but with 16 bit char pointers. \*/

```

typedef struct pcre16_callout_block {
    int    version;           /* Identifies version of block */
    /* ----- Version 0 ----- */
    int    callout_number;    /* Number compiled into pattern */

```

```

int      *offset_vector; /* The offset vector */
PCRE_SPTR16 subject;    /* The subject being matched */
int      subject_length; /* The length of the subject */
int      start_match;   /* Offset to start of this match attempt */
int      current_position; /* Where we currently are in the subject */
int      capture_top;   /* Max current capture */
int      capture_last;  /* Most recently closed capture */
void     *callout_data; /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int      pattern_position; /* Offset to next item in the pattern */
int      next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre16_callout_block;

```

/\* Indirection for store get and free functions. These can be set to alternative malloc/free functions if required. Special ones are used in the non-recursive case for "frames". There is also an optional callout function that is triggered by the (?) regex item. For Virtual Pascal, these definitions have to take another form. \*/

```

#ifndef VPCOMPAT
PCRE_EXP_DECL void (*pcre_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_free)(void *);
PCRE_EXP_DECL void (*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_stack_free)(void *);
PCRE_EXP_DECL int (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void (*pcre16_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_free)(void *);
PCRE_EXP_DECL void (*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int (*pcre16_callout)(pcre16_callout_block *);
#else /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void pcre_stack_free(void *);
PCRE_EXP_DECL int pcre_callout(pcre_callout_block *);

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void pcre16_stack_free(void *);
PCRE_EXP_DECL int pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */

```

```

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *,
    int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
    char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
    PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
    const char *, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
    int, int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int,
    void *);
PCRE_EXP_DECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
    void *);
PCRE_EXP_DECL int pcre_get_named_substring(const pcre *, const char *,
    int *, int, const char *, const char **);
PCRE_EXP_DECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *,

```

```

    char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
    PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int,
    const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int,
    PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int,
    const char ***);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int,
    PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
    PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
    pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
    pcre16_jit_callback, void *);

#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* End of pcre.h */

```

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## 1.74 glibc 2.19-18+deb8u1

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```

```
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# 1.76 gnupg 1.4.18-7

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## 1.77 gnutls28 3.3.8-6+deb8u3

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## Constant-time SSSE3 AES core implementation.

## version 0.1

##

## By Mike Hamburg (Stanford University), 2009

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It was downloaded from <ftp://ftp.gnutls.org/gcrypt/gnutls/>

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Elliptic curve support improvements (wmNAF implementation and others).

Martin Storjo \*martin [at] martin.st\*  
DTLS-SRTP support.

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=====

lib/extras/randomart.\*

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=====

lib/accelerated/x86/elf/aes-ssse3-x86.s  
lib/accelerated/x86/macosx/aes-ssse3-x86.s

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=====  
lib/vasprintf.c

Upstream Authors: David Woodhouse <dwmw2@infradead.org>

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Comment: This code is not used on Debian/\*, since we have a working  
vasprintf() in glibc.

## 1.78 golang 1-5

### 1.78.1 Available under license :

Source: <https://go.googlecode.com/hg/>

Files: \*

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Files: include/\*, src/lib9/\*, src/libbio/\*, src/pkg/runtime/386/\*,  
src/libmach/\*, src/pkg/runtime/arm/vlop.s, src/pkg/runtime/arm/vlvt.c,

src/pkg/runtime/arm/memset.s, src/pkg/runtime/arm/memmove.s,  
src/pkg/runtime/amd64/memmove.s, src/pkg/runtime/amd64/memmove.s,  
src/pkg/math/fltasm\_amd64.s, src/cmd/6c/txt.c, src/cmd/gopack/ar.c,  
src/cmd/ld/lib.[ch], src/cmd/6a/a.[yh], src/cmd/6a/lex.c,  
src/cmd/5g/gobj.c, src/cmd/5g/list.c, src/cmd/5g/gsubr.c,  
src/cmd/5g/opt.h, src/cmd/8c/\*, src/cmd/goyacc/goyacc.go,  
src/cmd/5l/\*, src/cmd/6g/reg.c, src/cmd/6g/gobj.c,  
src/cmd/6g/peep.c, src/cmd/6g/list.c, src/cmd/6g/gsubr.c,  
src/cmd/6g/opt.c, src/cmd/8l/\*, src/cmd/nm/nm.c,  
src/cmd/gc/bits.c, src/cmd/cc/\*, src/cmd/5a/\*, src/cmd/8g/reg.c,  
src/cmd/8g/gobj.c, src/cmd/8g/peep.c, src/cmd/8g/list.c,  
src/cmd/8g/gsubr.c, src/cmd/8g/opt.h, src/cmd/5c/\*, src/cmd/6l/\*,  
src/cmd/8a/\*

Origin: Plan 9 from User Space include/, src/lib9/, src/libmach/  
Inferno utils/include/, utils/libmach/, utils/6c/, utils/iar/,  
utils/6l/, utils/6a/, utils/5c/, utils/8c/, utils/iyacc/,  
utils/5l/, utils/6c/, utils/8l/, utils/nm/, utils/cc/,  
utils/5a/, utils/8a/, lib9/, libkern/, libbio/

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Files: src/lib9/goos.c, src/lib9/win32.c, src/lib9/Makefile,  
src/pkg/runtime/386/asm.s, src/pkg/runtime/386/closure.c,  
src/pkg/runtime/arm/asm.s, src/pkg/runtime/arm/closure.c,  
src/pkg/runtime/arm/cas5.s, src/libmach/fakeobj.c,  
src/libmach/macho.h, src/cmd/6c/doc.go, src/cmd/6c/Makefile,  
src/cmd/8c/doc.go, src/cmd/8c/Makefile, src/cmd/5l/doc.go,  
src/cmd/5l/softfloat.c, src/cmd/5l/Makefile, src/cmd/8l/doc.go,  
src/cmd/8l/Makefile, src/cmd/cc/doc.go, src/cmd/cc/Makefile,  
src/cmd/5a/doc.go, src/cmd/5a/Makefile, src/cmd/5c/doc.go,  
src/cmd/5c/Makefile, src/cmd/6l/doc.go, src/cmd/6l/Makefile,  
src/cmd/8a/doc.go, src/cmd/8a/Makefile

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Files: include/fmt.h, src/lib9/utf/\*, src/lib9/fmt/\*,  
src/pkg/runtime/rune.c

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Files: src/lib9/utf/mkruntime.c

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Files: src/cmd/cov/tree.[ch]

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Files: src/cmd/prof/goprof

Origin: based on src/pprof from google-perftools

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Notes:

This is a copy of <http://google-perftools.googlecode.com/svn/trunk/src/pprof>  
with local modifications to handle generation of SVG images and  
the Go-style pprof paths. These modifications will probably filter  
back into the official source before long.

It's convenient to have a copy here because we need just the one  
Perl script, not all the C++ libraries that surround it.

Files: src/pkg/runtime/tiny/bootblock

Origin: Xv6 rev3

Copyright: 2006-2009 Frans Kaashoek, Robert Morris, Russ Cox,  
Massachusetts Institute of Technology

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Files: src/pkg/debug/dwarf/testdata/typedef.macho,

src/pkg/debug/dwarf/testdata/typedef.elf

Source: src/pkg/debug/dwarf/testdata/typedef.c

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Files: src/pkg/debug/macho/testdata/gcc-amd64-darwin-exec-debug,  
src/pkg/debug/macho/testdata/gcc-386-darwin-exec,  
src/pkg/debug/macho/testdata/gcc-amd64-darwin-exec,  
src/pkg/debug/elf/testdata/go-relocation-test-gcc424-x86-64.o,  
src/pkg/debug/elf/testdata/gcc-amd64-linux-exec,  
src/pkg/debug/elf/testdata/go-relocation-test-gcc441-x86.o,  
src/pkg/debug/elf/testdata/gcc-386-freebsd-exec,  
src/pkg/debug/elf/testdata/go-relocation-test-gcc441-x86-64.o  
Source: ?

Files: src/pkg/debug/elf/elf.go, src/cmd/ld/elf.h  
Origin: FreeBSD src/sys/sys/elf{32,64,\_common}.h, src/sys/\*/include/elf.h  
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Files: src/pkg/math/log1p.go  
Origin: Translated and simplified from FreeBSD /usr/src/lib/msun/src/s\_log1p.c  
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The original C code, the long comment, and the constants  
below are from FreeBSD's /usr/src/lib/msun/src/s\_log1p.c  
and came with this notice. The go code is a simplified  
version of the original C.

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Files: src/pkg/image/jpeg/idct.go  
Origin: Translated from idct.c in the MPEG-2 (ISO/IEC 13818-4)  
technical report video software verifier (mpeg2decode)  
version 960109  
Copyright: 1996, MPEG Software Simulation Group. All Rights Reserved.  
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Files: src/pkg/exp/spacewar/pdp1.go, src/pkg/exp/spacewar/spacewar.go  
Origin: Translated from the Java emulator pdp1.java in Spacewar!  
Copyright: 1996 Barry Silverman, Brian Silverman, Vadim Gerasimov.  
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Files: src/pkg/exp/spacewar/code.go

Origin: The original Spacewar!

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This file contains the assembly language and machine code for Spacewar!, the original PDP-1 video game. It is downloaded from <http://spacewar.oversigma.com/sources/sources.zip> which has the following notice at <http://spacewar.oversigma.com/>:

Spacewar! was conceived in 1961 by Martin Graetz, Stephen Russell, and Wayne Wiitanen. It was first realized on the PDP-1 in 1962 by Stephen Russell, Peter Samson, Dan Edwards, and Martin Graetz, together with Alan Kotok, Steve Piner, and Robert A Saunders. Spacewar! is in the public domain, but this credit paragraph must accompany all distributed versions of the program.

This is the original version! Martin Graetz provided us with a printed version of the source. We typed in in again - it was about 40 pages long - and re-assembled it with a PDP-1 assembler written in PERL. The resulting binary runs on a PDP-1 emulator written as a Java applet. The code is extremely faithful to the original. There are only two changes. 1)The spaceships have been made bigger and 2) The overall timing has been special cased to deal with varying machine speeds.

The "a", "s", "d", "f" keys control one of the spaceships. The "k", "l", ";", "" keys control the other. The controls are spin one way, spin the other, thrust, and fire.

Barry Silverman

Brian Silverman

Vadim Gerasimov

Files: src/pkg/exp/4s/xs.go, src/pkg/exp/4s/data.go

Origin: Derived from Plan 9's /sys/src/games/xs.c

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Files: src/cmd/goyacc/units.txt

Origin: Plan9's /lib/units

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Files: src/cmd/goyacc/units.y

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Files: src/pkg/html/testdata/webkit/\*

Origin: WebKit LayoutTests/html5lib/resources/

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Files: src/pkg/image/png/testdata/pngsuite/\*

Origin: libpng 1.2.40, contrib/pngsuite/\*

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See nacl/README for details on running them.

.  
They are a translation of the Java emulator pdp1.java in  
<http://spacewar.oversigma.com/sources/sources.zip>.

.  
See also the PDP-1 handbook at <http://www.dbit.com/~greeng3/pdp1/pdp1.html>

.  
<http://spacewar.oversigma.com/readme.html> begins:

.  
Spacewar! was conceived in 1961 by Martin Graetz, Stephen Russell, and Wayne Wiitanen. It was first realized on the PDP-1 in 1962 by Stephen Russell, Peter Samson, Dan Edwards, and Martin Graetz, together with Alan Kotok, Steve Piner, and Robert A Saunders. Spacewar! is in the public domain, but this credit paragraph must accompany all distributed versions of the program.

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## 1.79 golang/debian 1-5

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#### Source Files

-----

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into `snprintf.c` for the copyright message.

The complete `snprintf` package together with documentation is available from

<http://www.ijs.si/software/snprintf/> .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at <http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z> .

```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

. The `gxditview` output device. It is based on X11's `xditview` program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c
```

```
src/include/DviChar.h
src/include/XFontName.h
```

```
src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c
```

## Macro Packages

-----

. The `-mdoc` macro set, using the BSD license.

```
tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
```

tmac/doc-syms  
tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meref.me

## Hyphenation Patterns

-----

. The file ``tmac/hyphen.us'` is identical to the file ``hyphen.tex'`, part of the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames ``hyphen.<language>'`, e.g. ``hyphen.de'` or ``hyphen.uk'`.

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. The file ``tmac/hyphen.fr'` contains the same patterns as the file ``frhyph.tex'` (for TeX), which can be found at

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. The file ``tmac/hyphen.sv'` is identical to the file ``svhyph.tex'`, which can be found at

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. The files ``tmac/hyphen.det'` and ``tmac/hyphen.den'` contain the same patterns as the files ``dehyphn.tex'` and ``dehypht.tex'` (for TeX), which can be found at

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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This is the Debian GNU/Linux prepackaged version of the GNU groff document formatting system.

GNU groff was written by James Clark [jjc@jclark.com](mailto:jjc@jclark.com).

It is now maintained by Ted Harding [ted.harding@nessie.mcc.ac.uk](mailto:ted.harding@nessie.mcc.ac.uk) and Werner Lemberg [w1@gnu.org](mailto:w1@gnu.org).

This Debian package was previously maintained by Fabrizio Polacco [fpolacco@debian.org](mailto:fpolacco@debian.org).

It is now maintained by Colin Watson [cjwatson@debian.org](mailto:cjwatson@debian.org).

The original tarball came from [URL:ftp://groff.ffii.org/pub/groff/](ftp://groff.ffii.org/pub/groff/):

48fa768dd6fdeb7968041dd5ae8e2b02 groff-1.20.1.tar.gz

and was simply renamed to groff\_1.20.1.orig.tar.gz.

Some patches have been applied to groff outside the debian directory.

The Debian diff also appends /usr/share/groff/tmac to the default macro path for compatibility with versions of groff earlier than 1.17 (patch by Colin Watson).

=====

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Written by James Clark (jic@jclark.com)

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=====  
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I e-mailed the upstream maintainer to clarify the intent of this. Here is the relevant part of the reply:

From: Werner LEMBERG <wl@gnu.org>  
To: cjwatson@debian.org  
Subject: Re: Clarifying the scope of groff/LICENSE  
Date: Thu, 18 Nov 2004 00:19:52 +0100 (CET)

> Since "compatible with the GPL" means to all intents and purposes  
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> assume that groff/LICENSE grants me permission to distribute  
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> GPL?

This is the intention, of course.

> If not, is the FDL thing from yesteryear going to be resolved some  
> other way? I just want to make sure that I don't get forced to  
> remove the groff manual, since that would really diminish the  
> quality of the Debian package IMHO.

Sigh. I haven't found time to revert the FDL stuff back to GPL. It basically affects only Bernd Warken and me, and we have both agreed to return to GPL in case FDL makes problems.

(Note that this e-mail predates the current wording in LICENSES.)

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```
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%%%%%%%%%
%%%%%%%%%
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asis for free. Modified versions should have another name.
%%%%%%%%%
%%%%%%%%%
% \message{frhyph.tex - French hyphenation patterns (V2.11) <2002/01/16>}
```

=====

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src/main/org/codehaus/groovy/jsr223/GroovyScriptEngineFactory.java  
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It was downloaded from <http://www.ibiblio.org/pub/Linux/system/hardware>

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```

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/* - by Mark Lord 1994-2008 -- freely distributable */
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```

```
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```

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```

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@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
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@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

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@item HDB LDAP backend.

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Camellia in libcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.

Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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lib/hcrypto/test\_dh.c

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# 1.114 jackson-databind 2.4.5

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## 1.120 Jetty 9.0.2 :Jetty Bundles

### 9.0.2.v20130417

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# 1.121 jna 3.4.0

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*/
package com.sun.el;

import javax.el.ELContext;
import javax.el.ELException;
import javax.el.ExpressionFactory;
import javax.el.MethodExpression;
import javax.el.ValueExpression;

import com.sun.el.lang.ExpressionBuilder;
import com.sun.el.lang.ELSupport;
import com.sun.el.util.MessageFactory;

/**
 * @see javax.el.ExpressionFactory
 *
 * @author Jacob Hookom [jacob@hookom.net]
 * @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: tcfujii $
 */
public class ExpressionFactoryImpl extends ExpressionFactory {

/**

```

```

*
*/
public ExpressionFactoryImpl() {
    super();
}

public Object coerceToType(Object obj, Class type) {
    Object ret;
    try {
        ret = ELSupport.coerceToType(obj, type);
    } catch (IllegalArgumentException ex) {
        throw new ELException(ex);
    }
    return ret;
}

public MethodExpression createMethodExpression(ELContext context,
    String expression, Class expectedReturnType,
    Class[] expectedParamTypes) {
    if (expectedParamTypes == null) {
        throw new NullPointerException(MessageFactory
            .get("error.method.nullParms"));
    }
    ExpressionBuilder builder = new ExpressionBuilder(expression, context);
    return builder.createMethodExpression(expectedReturnType,
        expectedParamTypes);
}

public ValueExpression createValueExpression(ELContext context,
    String expression, Class expectedType) {
    if (expectedType == null) {
        throw new NullPointerException(MessageFactory
            .get("error.value.expectedType"));
    }
    ExpressionBuilder builder = new ExpressionBuilder(expression, context);
    return builder.createValueExpression(expectedType);
}

public ValueExpression createValueExpression(Object instance,
    Class expectedType) {
    if (expectedType == null) {
        throw new NullPointerException(MessageFactory
            .get("error.value.expectedType"));
    }
    return new ValueExpressionLiteral(instance, expectedType);
}
}

```

```
//=====
//$Id: JettyLog.java 1106 2006-10-17 17:00:06Z janb $
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//=====
```

```
package com.sun.org.apache.commons.logging;
```

```
/**
 * Log
 *
 * Bridges the com.sun.org.apache.commons.logging.Log to Jetty's log.
 */
```

```
public class JettyLog implements Log
```

```
{
    private String _name;
    private org.mortbay.log.Logger _logger;
```

```
/**
```

```
*
 */
```

```
public JettyLog(String name)
```

```
{
    _name = name;
    _logger = org.mortbay.log.Log.getLogger(name);
}
```

```
public void fatal (Object message)
```

```
{
    _logger.warn(message.toString(), null, null);
}
```

```
public void fatal (Object message, Throwable t)
```

```
{
    _logger.warn(message.toString(), t);
}
```

```
public void debug(Object message)
```



```

{
    _logger.debug(message.toString(), null);
}

public void debug (Object message, Throwable t)
{
    _logger.debug(message.toString(), t);
}

public void trace (Object message)
{
    _logger.debug(message.toString(), null);
}

public void info(Object message)
{
    _logger.info(message.toString(), null, null);
}

public void error(Object message)
{
    _logger.warn(message.toString(), null);
}

public void error(Object message, Throwable cause)
{
    _logger.warn(message.toString(), cause);
}

public void warn(Object message)
{
    _logger.warn(message.toString(), null);
}

public boolean isDebugEnabled ()
{
    return _logger.isDebugEnabled();
}

public boolean isWarnEnabled ()
{
    return _logger.isDebugEnabled();
}

public boolean isInfoEnabled ()
{
    return true;
}

```

```

}

public boolean isErrorEnabled ()
{
    return true;
}

public boolean isTraceEnabled ()
{
    return _logger.isDebugEnabled();
}
}

```

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Version 2.0, January 2004

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# 1.127 jsp-api 2.2

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

- lib/gssapi/generic/gssapi\_err\_generic.et
- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c

lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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```
cmd/krb5/ipropl/ipropl.x
cmd/krb5/ipropl/ipropl_hdr.h
cmd/krb5/kadmin/server/ipropld_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
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```

lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
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lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see `init_nicstar()` for PHY initialization to change this. This driver

- \* expects the Linux ATM stack to support scatter-gather lists
- \* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- \*
- \* Implementing minimal-copy of received data:
- \* IDT always receives data into a small buffer, then large buffers
- \* as needed. This means that data must always be copied to create
- \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- \* Fix is simple: make large buffers large enough to hold entire
- \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then
- \* copy small buffer contents to head of large buffer.
- \* Trick is to avoid fragmenting Linux, due to need for a lot of large
- \* buffers. This is done by 2 things:
- \* 1) skb->destructor / skb->atm.recycle\_buffer
- \* combined, allow nicstar\_free\_rx\_skb to be called to
- \* recycle large data buffers
- \* 2) skb\_clone of received buffers
- \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation
- \* details.
- \*
- \*
- \*
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- \*
- \* M. Welsh, 6 July 1996
- \*
- \*
- \*/

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# 1.131 keyutils 1.5.9-5

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989  
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## 1.132 kmod 18-3

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Ty Coon, President of Vice

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This is the Debian GNU/Linux prepackaged version of kmod.

It has been packaged by Marco d'Itri <md@linux.it>.

Original sources were obtained from:  
<http://www.kernel.org/pub/linux/utils/kernel/kmod/>

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## 1.133 Idb 1:1.1.16-1 :1

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## 1.136 libcap 2.24

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## 1.137 libdnet 1.12 :13.1.e17

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```
## *-makefile*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
```

```
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*\1.o $@ :/g\" > $@; \
[-s $@ ] || rm -f $@'
```

```
%.d: $(srcdir)/%.cpp
```

```
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*\1.o $@ :/g\" > $@; \
[-s $@ ] || rm -f $@'
```

```
## Versioned libraries rules
```

```
%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@
```

```
## End FreeBSD-specific setup
```

```
ICU License - ICU 1.8.1 and later
```

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## 1.144 libidn 1.29-1

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```
#!/bin/sh
# Guess values for system-dependent variables and create Makefiles.
# Generated by GNU Autoconf 2.69 for GNU Libidn 1.29.
#
# Report bugs to <bug-libidn@gnu.org>.
#
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#
#
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## ----- ##
## M4sh Initialization. ##
## ----- ##
;;; idna.el --- Internationalizing Domain Names in Applications.

;; Copyright (C) 2003-2014 Simon Josefsson
;; Keywords: idna, idn, domain name, internationalization

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;;; Commentary:
```

:: A simple wrapper around the command line "idn" utility in GNU  
:: Libidn to make IDNA ToASCII and ToUnicode operations available in  
:: Emacs.

## 1.145 libjpeg-turbo 8d+1.3.1-r0

### 1.145.1 Notifications :

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libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README-turbo.txt for information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software

=====

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DOCUMENTATION ROADMAP

=====

This file contains the following sections:

OVERVIEW            General description of JPEG and the IJG software.  
LEGAL ISSUES        Copyright, lack of warranty, terms of distribution.  
REFERENCES          Where to learn more about JPEG.  
ARCHIVE LOCATIONS  Where to find newer versions of this software.  
FILE FORMAT WARS    Software \*not\* to get.  
TO DO                Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt    How to configure and install the IJG software.  
usage.txt     Usage instructions for cjpeg, djpeg, jpegtran,  
              rdjpgcom, and wrjpgcom.  
\*.1            Unix-style man pages for programs (same info as usage.txt).  
wizard.txt    Advanced usage instructions for JPEG wizards only.  
change.log    Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt   How to use the JPEG library in your own programs.  
example.c     Sample code for calling the JPEG library.  
structure.txt  Overview of the JPEG library's internal structure.  
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

=====

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,

plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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=====

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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## REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

<http://www.ecma-international.org/publications/techreports/E-TR-098.htm>.

A PostScript version of the JFIF document is available at



<http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at <http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org). The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu](http://rtfm.mit.edu): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body  
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send usenet/news.answers/jpeg-faq/part2

## FILE FORMAT WARS

=====

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.  
Don't use an incompatible file format!  
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

=====

Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

\*\*\*\*\*

\*\* Background

\*\*\*\*\*

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

\*\*\*\*\*

\*\* License

\*\*\*\*\*

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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```
*****  
** Using libjpeg-turbo  
*****
```

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

**TurboJPEG API:** This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

**libjpeg API:** This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

```
=====  
Installation Directory  
=====
```

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un\*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions

accordingly.

```
=====
Replacing libjpeg at Run Time
=====
```

Un\*x

----

If a Un\*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD\_LIBRARY\_PATH. For instance:

[Using libjpeg]

```
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s
```

[Using libjpeg-turbo]

```
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s
```

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib\* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows

-----

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg\_stdio\_dest() and jpeg\_stdio\_src().

Mac

---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.\*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install\_name\_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

=====  
Using libjpeg-turbo in Your Own Programs  
=====

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Unix systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include  
and  
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include  
and  
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.)

On Un\*x systems, you would still need to manipulate LD\_LIBRARY\_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un\*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

```
=====
Colorspace Extensions
=====
```

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

```
JCS_EXT_RGB /* red/green/blue */
JCS_EXT_RGBX /* red/green/blue/x */
JCS_EXT_BGR /* blue/green/red */
JCS_EXT_BGRX /* blue/green/red/x */
JCS_EXT_XBGR /* x/blue/green/red */
JCS_EXT_XRGB /* x/red/green/blue */
JCS_EXT_RGBA /* red/green/blue/alpha */
JCS_EXT_BGRA /* blue/green/red/alpha */
JCS_EXT_ABGR /* alpha/blue/green/red */
JCS_EXT_ARGB /* alpha/red/green/blue */
```

Setting cinfo.in\_color\_space (compression) or cinfo.out\_color\_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspace during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS\_EXT\_RGBA, JCS\_EXT\_BGRA, JCS\_EXT\_ABGR, or JCS\_EXT\_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```
#ifdef JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

```
=====  
libjpeg v7 and v8 API/ABI Emulation  
=====
```

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH\_JPEG7=1 or -DWITH\_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:

-----

Fully supported:

- libjpeg: IDCT scaling extensions in decompressor  
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)
- libjpeg: arithmetic coding
- libjpeg: In-memory source and destination managers  
See notes below.
- cjpeg: Separate quality settings for luminance and chrominance  
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)
- cjpeg: 32-bit BMP support
- cjpeg: -rgb option
- jpegtran: lossless cropping
- jpegtran: -perfect option
- jpegtran: forcing width/height when performing lossless crop
- rdjpgcom: -raw option
- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at <http://www.libjpeg-turbo.org/About/SmartScale> and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

- libjpeg: DCT scaling in compressor  
cinfo.scale\_num and cinfo.scale\_denom are silently ignored.  
There is no technical reason why DCT scaling could not be supported when



emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale

cinfo.block\_size is silently ignored.

SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor

cinfo.do\_fancy\_downsampling is silently ignored.

This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling

This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files

This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

-----

libjpeg v9 introduced yet another field to the JPEG compression structure (color\_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====

In-Memory Source/Destination Managers

=====

By default, libjpeg-turbo 1.3 and later includes the `jpeg_mem_src()` and `jpeg_mem_dest()` functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of `--without-mem-srcdst` to configure or an argument of `-DWITH_MEM_SRCDEST=0` to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which `jpeg_mem_src()` and `jpeg_mem_dest()` are only included when emulating the libjpeg v8 API/ABI.

On Un\*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un\*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses `jpeg_mem_src()` or `jpeg_mem_dest()`, that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call `jpeg_mem_src()` or `jpeg_mem_dest()`. Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses `jpeg_mem_src()` or `jpeg_mem_dest()`, then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both `cjpeg` and `djpeg` have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

\*\*\*\*\*  
\*\* Mathematical Compatibility  
\*\*\*\*\*

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is

still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.
- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.
- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.
- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

\*\*\*\*\*  
\*\* Performance Pitfalls  
\*\*\*\*\*

=====  
Restart Markers  
=====

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

=====  
Fast Integer Forward DCT at High Quality Levels  
=====

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

# 1.146 libjson 0.11-2

## 1.146.1 Available under license :

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# 1.147 libnet 1.1.4 :2.1

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libnet 1.1.x

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EOF

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libnuma sources are available from

<http://oss.sgi.com/projects/libnuma/>

Upstream Authors:

Andi Kleen <ak@suse.de>

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## 1.149 libpcap 1.6.2 :1.0

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## 1.157 libxcursor 1.1.14 :1

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/\*

\* hash.c: chained hash tables

\*

\* Reference: Your favorite introductory book on algorithms

\*

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\*

\* Author: breese@users.sourceforge.net

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/\*

\* list.c: lists handling implementation

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## 1.167 logrotate 3.8.7 :1ubuntu1

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Upstream-Name: Isof

Upstream-Contact: <https://lists.rcac.purdue.edu/listinfo/Isof-1>

Source: <ftp://Isof.itap.purdue.edu/pub/tools/unix/Isof/>

Comment: The following changes were made to the upstream tarball:

- 1.) The directory dialects/uw was removed for being non-DFSG and not needed in Debian.
- 2.) The main source was a tarball within a tarball. Only the innermost tarball has been retained.
- 3.) The top-level directory has been stripped away as it embedded the version number making packaging more difficult.

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

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```

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
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# 1.170 mawk 1.3.3-17

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```
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```

```
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```

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

```
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(at your option) any later version.
```

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

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```
#!/bin/sh
```

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```

```
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# but WITHOUT ANY WARRANTY, to the extent permitted by law; without
# even the implied warranty of MERCHANTABILITY or FITNESS FOR A
# PARTICULAR PURPOSE.
```

```
# ck-copyright-notice can be run from the tools directory
```

```
dir=`pwd`
```

```
[ -d src ] || [ "$(basename "$dir")" != tools ] || cd ..
```

```
# Note: if paragraphs are reformatted, this may need to be updated.
```

```
lgpl="`sed -n '/version [0-9.]* or any later version/ {
s/.*/version //
s/ or.*//
p
q
}` doc/mpfr.texi`"
```

```

# Do not use "find ... | while read file do ... done" because the "do"
# part needs to be run in the current shell, and some shells behave in
# a different way.
srctests=`find src tests -name '*.[ch]`

err=0
for file in $srctests
do
y=""
case $file in
tests/RRTest.c)
# This file doesn't have a copyright notice, but isn't distributed.
continue ;;
src/mpfr-longlong.h)
# This file (which comes from GMP) has a specific copyright notice.
continue ;;
src/get_patches.c)
file="tools/get_patches.sh" ;;
*/mparam.h)
y="2005," ;;
esac
grep -q "Copyright $y.* Free Software Foundation" "$file" && \
grep -q "GNU MPFR Library" "$file" && \
grep -q "either version $lgpl of the License" "$file" && continue
echo "Possibly missing or incorrect copyright notice in $file"
err=1
done

exit $err

@c MPFR tweak: Have this in mpfr.texi to help texinfo-mode
@c @node GNU Free Documentation License
@c @appendixsec GNU Free Documentation License

@cindex GNU Free Documentation License
@center Version 1.2, November 2002

@display
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@c ispell-local-pdict: "ispell-dict"  
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JPython was created in late 1997 by Jim Hugunin. Jim was also the

primary developer while he was at CNRI. In February 1999 Barry Warsaw took over as primary developer and released JPython version 1.1. In October 2000 Barry helped move the software to SourceForge where it was renamed to Jython. Jython 2.0 is developed by a group of volunteers.

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## 1.174 mybatis 3.1.1



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## 1.181 nettle 2.7.1 :1

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Upstream-Contact: Niels Mller <nisse@lysator.liu.se>

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A list of the supported algorithms, their origins and licenses (from the manual):

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AES

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#### ARCFOUR

The implementation of the ARCFOUR (also known as RC4) cipher is written by Niels Miller. Released under the LGPL.

#### ARCTWO

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#### CAMELLIA

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#### CAST128

The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

#### DES

The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

#### MD2

The implementation of MD2 is written by Andrew Kuchling, and hacked some by Andreas Sigfridsson and Niels Miller. Python Cryptography Toolkit license (essentially public domain).

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## SHA224, SHA256, SHA384, and SHA512

Written by Niels Mller, using Peter Gutmann's SHA1 code as a model. Released under the LGPL.

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The implementation of the TWOFISH cipher is written by Ruud de Rooij. Released under the LGPL.

## RSA

Written by Niels Mller, released under the LGPL. Uses the GMP library for bignum operations.

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# 1.182 newt 0.52.17-1

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newt was written by Erik Troan <ewt@redhat.com>.

The original package was put together by Enrique Zanardi  
<ezanard@debian.org>, from sources obtained from:  
<ftp://ftp.redhat.com/pub/redhat/redhat-7.0-en/os/i386/SRPMS/newt-0.50.17-1.src.rpm>  
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## 1.183 nginx 1.10.1

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\* easy-tls.c -- generic TLS proxy.

\* \$Id: easy-tls.c,v 1.4 2002/03/05 09:07:16 bodo Exp \$

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# 1.196 pam 1.1.8-3.1

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\*  
\* Authors:  
\* Steve Grubb <sgrubb@redhat.com>  
\*  
\* PAM module that sets the login uid introduced in kernel 2.6.11  
\*/

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# 1.198 patch 2.7.5 :1

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The upstream source is available at '<ftp://ftp.gnu.org/gnu/patch/>', resp. '<ftp://alpha.gnu.org/gnu/diffutils/>'.

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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

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

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---

# 1.204 pigz 2.2.5 :1.e15

## 1.204.1 Available under license :

```
/* pigz.c -- parallel implementation of gzip
 * Copyright (C) 2007, 2008, 2009, 2010, 2011, 2012 Mark Adler
 * Version 2.2.5 28 Jul 2012 Mark Adler
 */
```

```
/*
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warranty. In no event will the author be held liable for any damages
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```

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```
*/
```

```
/* yarn.h -- generic interface for thread operations
 * Copyright (C) 2008, 2011 Mark Adler
 * Version 1.3 13 Jan 2012 Mark Adler
 */
```

```
/*
```

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\*/

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## 1.205 popt 1.16 :7ubuntu3

## 1.205.1 Available under license :

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## 1.206 procps 1:3.3.9-1ubuntu2.2

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Version 2, June 1991

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# 1.209 Python 3.4.1

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### A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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./dns/rdtypes/ANY/DNSKEY.py PYTHON 2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/DS.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/GPOS.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/HINFO.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/HIP.py PYTHON 2010,2011  
./dns/rdtypes/ANY/ISDN.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/LOC.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
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./dns/rdtypes/ANY/NS.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/NSEC.py PYTHON 2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/NSEC3.py PYTHON 2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/NSEC3PARAM.py PYTHON 2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/PTR.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/RP.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/RRSIG.py PYTHON 2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/RT.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/SOA.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/SPF.py PYTHON 2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/SSHFP.py PYTHON 2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/TXT.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/X25.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/ANY/\_\_init\_\_.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/IN/A.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/IN/AAAA.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/IN/APL.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./dns/rdtypes/IN/DHCID.py PYTHON 2006,2007,2009,2010,2011  
./dns/rdtypes/IN/IPSECKEY.py PYTHON 2006,2007,2009,2010,2011

./dns/rdtypes/IN/KX.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/NAPTR.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/NSAP.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/NSAP\_PTR.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/PX.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/SRV.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/WKS.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/IN/\_\_init\_\_.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/\_\_init\_\_.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/dsbase.py PYTHON 2010,2011  
 ./dns/rdtypes/mxbase.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/nsbase.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/rdtypes/txtbase.py PYTHON 2006,2007,2009,2010,2011  
 ./dns/renderer.py PYTHON 2001,2002,2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/resolver.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/reversename.py PYTHON 2006,2007,2009,2010,2011  
 ./dns/rrset.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/set.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/tokenizer.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/tsig.py PYTHON 2001,2002,2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/tsigkeyring.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/ttl.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/update.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/version.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./dns/wiredata.py PYTHON 2011  
 ./dns/zone.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./examples/ddns.py X 2006,2007  
 ./examples/e164.py X 2006,2007  
 ./examples/mx.py X 2003,2004,2005,2006,2007  
 ./examples/name.py X 2003,2004,2005,2006,2007  
 ./examples/reverse.py X 2003,2004,2005,2006,2007  
 ./examples/reverse\_name.py X 2006,2007  
 ./examples/xfr.py X 2003,2004,2005,2006,2007  
 ./examples/zonediff.py X 2010,2011  
 ./setup.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/Makefile MAKE 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/bugs.py PYTHON 2006,2007,2009,2010,2011  
 ./tests/dnssec.py PYTHON 2011  
 ./tests/example X 2003,2004,2005,2006,2007  
 ./tests/example1.good X 2003,2004,2005,2006,2007  
 ./tests/example2.good X 2003,2004,2005,2006,2007  
 ./tests/flags.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/message.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/name.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/namedict.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/ntoaaton.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/rdtypeandclass.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
 ./tests/resolver.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011

./tests/rrset.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./tests/set.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./tests/tokenizer.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
./tests/update.py PYTHON 2003,2004,2005,2006,2007,2009,2010,2011  
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## 1.223 servlet-api 3.0-alpha-1 :3.0

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## 1.233 spring framework 4.2.4

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## 1.253 syslog-ng\_LGPLv2.1 3.5.6

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# 1.254 syslog-ng\_MPLv1.1 3.5.6

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# 1.258 tar 1.27.1 :1

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## 1.259 tcpdump 4.6.2 :Sep. 2, 2014

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## 1.261 Tomcat 5.5.20

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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd

- jsp\_2\_2.xsd  
- web-app\_3\_0.xsd  
- web-common\_3\_0.xsd  
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## 1.263 tomcat-jdbc 7.0.47

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
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## 1.265 underscore.js 1.4.4

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\*

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\*

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\*

\* Date: Wed Mar 21 12:46:34 2012 -0700

\*/

// JSLitmus.js

//

// History:

// 2008-10-27: Initial release

// 2008-11-09: Account for iteration loop overhead

// 2008-11-13: Added OS detection

// 2009-02-25: Create tinyURL automatically, shift-click runs tests in reverse

//

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

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

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

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"Source code" for a work means the preferred form of the work for

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

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(For example, a function in a library to compute square roots has

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.  
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

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

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

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

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

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

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

It may happen that this requirement contradicts the license

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

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

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

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

b) Use a suitable shared library mechanism for linking with the

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

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

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

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

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## 1.269 vim 7.4.488 :James McCoy 04 Nov 2014

## 1.270 vixie-cron 3.0.1 :69

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# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
# */
```

## 1.271 vmguestlib 0.1.2

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## 1.272 wannagreen master

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## 1.274 wsd14j 1.6.3

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## 1.282 xz 5.1.2 :9alpha.el7

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Version 3, 29 June 2007

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## 1.283 zlib 1.2.3

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