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In your requests please include the following reference number 78EE117C99-185354020

Contents

1.1 acl 2.2.51 :14.el7
   1.1.1 Available under license
1.2 aic94xx-firmware 30 :6.el7
   1.2.1 Available under license
1.3 alsa-firmware 1.0.28 :2.el7
   1.3.1 Available under license
1.4 alsa-lib 1.1.4.1 :2.el7
   1.4.1 Available under license
1.5 alsa-tools 1.1.0 :1.el7
   1.5.1 Available under license
1.6 ansible 2.5.2 :1.el7
   1.6.1 Available under license
1.7 apr 1.4.8 :3.el7_4.1
   1.7.1 Available under license
1.8 apr-util 1.5.2 :6.el7
   1.8.1 Available under license
1.9 aspell 0.60.6.1 :9.el7
   1.9.1 Available under license
1.10 at 3.1.13 :23.el7
   1.10.1 Available under license
1.11 attr 2.4.46 :13.el7
   1.11.1 Available under license
1.12 audit 2.8.1 :3.el7
   1.12.1 Available under license
1.13 authconfig 6.2.8 :30.el7
   1.13.1 Available under license
1.14 autogen 5.18 :5.el7
   1.14.1 Available under license
1.15 avahi 0.6.31 :19.el7
   1.15.1 Available under license
1.16 babel 0.9.6 :8.el7
   1.16.1 Available under license
1.17 basesystem 10.0 :7.el7.centos
   1.17.1 Available under license
1.18 bash 4.2.46 :30.el7
   1.18.1 Available under license
1.19 bc 1.06.95 :13.el7
   1.19.1 Available under license
1.20 bigtop-groovy 2.4.10 :1.el7.centos
   1.20.1 Available under license
1.21 bigtop-jsvc 1.0.15 :1.el7.centos
   1.21.1 Available under license
1.22 bigtop-tomcat 6.0.45 :1.el7.centos
   1.22.1 Available under license
1.23 bigtop-utils 1.2.0 :1.el7.centos
   1.23.1 Available under license
1.24 bind 9.9.4 :61.el7
   1.24.1 Available under license
1.25 binutils 2.27 :27.base.el7
   1.25.1 Available under license
1.26 biosdevname 0.7.3 :1.el7
   1.26.1 Available under license
1.27 boost 1.53.0 :27.el7
   1.27.1 Available under license
1.28 btrfs-progs 4.9.1 :1.el7
   1.28.1 Available under license
1.29 bzip2 1.0.6 :13.el7
   1.29.1 Available under license
1.30 ca-certificates 2017.2.20 :71.el7
1.31 centos-logos 70.0.6 :3.el7.centos
   1.31.1 Available under license
1.32 centos-release 7 :5.1804.el7.centos
   1.32.1 Available under license
1.33 checkpolicy 2.5 :6.el7
   1.33.1 Available under license
1.34 chkconfig 1.7.4 :1.el7
   1.34.1 Available under license
1.35 coreutils 8.22 :21.el7
   1.35.1 Available under license
1.36 cpio 2.11 :27.el7
   1.36.1 Available under license
1.37 cracklib 2.9.0 :11.el7
   1.37.1 Available under license
1.38 cronie 1.4.11 :19.el7
   1.38.1 Available under license
1.39 crontabs 1.11 :6.20121102git.el7
   1.39.1 Available under license
1.40 cryptsetup 1.7.4 :4.el7
   1.40.1 Available under license
1.41 cups 1.6.3 :35.el7
   1.41.1 Available under license
1.42 curl 7.29.0 :46.el7
   1.42.1 Available under license
1.43 cyrus-sasl 2.1.26 :23.el7
   1.43.1 Available under license
1.44 dbus 1.10.24 :7.el7
   1.44.1 Available under license
1.45 dbus-glib 0.100 :7.el7
   1.45.1 Available under license
1.46 dbus-python 1.1.1 :9.el7
   1.46.1 Available under license
1.47 device-mapper-multipath 0.4.9 :119.el7
   1.47.1 Available under license
1.48 device-mapper-persistent-data 0.7.3 :3.el7
   1.48.1 Available under license
1.49 dhcp 4.2.5 :68.el7.centos
   1.49.1 Available under license
1.50 diffutils 3.3 :4.el7
   1.50.1 Available under license
1.51 dmidecode 3.0 :5.el7
   1.51.1 Available under license
1.52 dnsmasq 2.76 :5.el7
   1.52.1 Available under license
1.53 dracut 033 :535.el7
1.53.1 Available under license
1.54 e2fsprogs 1.42.9 :11.el7
   1.54.1 Available under license
1.55 ebtables 2.0.10 :16.el7
   1.55.1 Available under license
1.56 ed 1.9 :4.el7
   1.56.1 Available under license
1.57 elfutils 0.170 :4.el7
   1.57.1 Available under license
1.58 elrepo-release 7.0
1.59 epel-release 7 :11
   1.59.1 Available under license
1.60 ethtool 4.8 :7.el7
   1.60.1 Available under license
1.61 expat 2.1.0 :10.el7_3
   1.61.1 Available under license
1.62 file 5.11 :33.el7
   1.62.1 Available under license
1.63 filesystem 3.2 :25.el7
1.64 findutils 4.5.11 :5.el7
   1.64.1 Available under license
1.65 fipscheck 1.4.1 :6.el7
   1.65.1 Available under license
1.66 firewalld 0.4.4.4 :14.el7
   1.66.1 Available under license
1.67 freetype 2.4.11 :15.el7
   1.67.1 Available under license
1.68 fuse 2.9.2 :10.el7
   1.68.1 Available under license
1.69 fxload 2002_04_11 :16.el7
   1.69.1 Available under license
1.70 gawk 4.0.2 :4.el7_3.1
   1.70.1 Available under license
1.71 gcc 4.8.5 :28.el7
   1.71.1 Available under license
1.72 gdbm 1.10 :8.el7
   1.72.1 Available under license
1.73 GeoIP 1.5.0 :11.el7
   1.73.1 Available under license
1.74 gettext 0.19.8.1 :2.el7
   1.74.1 Available under license
1.75 git 1.8.3.1 :13.el7
   1.75.1 Available under license
1.76 glib-networking 2.50.0 :1.el7
   1.76.1 Available under license
1.77 glib2 2.54.2 :2.el7
   1.77.1 Available under license
1.78 glibc 2.17 :222.el7
   1.78.1 Available under license
1.79 gmp 6.0.0 :15.el7
   1.79.1 Available under license
1.80 gnupg2 2.0.22 :4.el7
   1.80.1 Available under license
1.81 gnutls 3.3.26 :9.el7
   1.81.1 Available under license
1.82 gobject-introspection 1.50.0 :1.el7
   1.82.1 Available under license
1.83 gpgme 1.3.2 :5.el7
   1.83.1 Available under license
1.84 gpm 1.20.7 :5.el7
   1.84.1 Available under license
1.85 grep 2.20 :3.el7
   1.85.1 Available under license
1.86 groff 1.22.2 :8.el7
   1.86.1 Available under license
1.87 groovy 2.4.10
1.88 grub2 2.02 :0.65.el7.centos.2
   1.88.1 Available under license
1.89 grubby 8.28 :23.el7
   1.89.1 Available under license
1.90 gsettings-desktop-schemas 3.24.1 :1.el7
   1.90.1 Available under license
1.91 gzip 1.5 :10.el7
   1.91.1 Available under license
1.92 hadoop 2.7.3 :1.el7.centos
   1.92.1 Available under license
1.93 hardlink 1.0 :19.el7
   1.93.1 Available under license
1.94 hostname 3.13 :3.el7
   1.94.1 Available under license
1.95 httpd 2.4.6 :80.el7.centos
   1.95.1 Available under license
1.96 hwdata 0.252 :8.8.el7
   1.96.1 Available under license
1.97 icu 50.1.2 :15.el7
   1.97.1 Available under license
1.98 initscripts 9.49.41 :1.el7
   1.98.1 Available under license
1.99 iotop 0.6 :2.el7
   1.99.1 Available under license
1.100 iproute 4.11.0 :14.el7
   1.100.1 Available under license
1.101 iprutils 2.4.15.1 :1.el7
   1.101.1 Available under license
1.102 ipset 6.29 :1.el7
   1.102.1 Available under license
1.103 iptables 1.4.21 :24.el7
   1.103.1 Available under license
1.104 iputils 20160308 :10.el7
   1.104.1 Available under license
1.105 irqbalance 1.0.7 :11.el7
   1.105.1 Available under license
1.106 ivtv-firmware 20080701 :26.el7
   1.106.1 Available under license
1.107 jansson 2.10 :1.el7
   1.107.1 Available under license
1.108 jemalloc 3.6.0 :1.el7
   1.108.1 Available under license
1.109 json-c 0.11 :4.el7_0
   1.109.1 Available under license
1.110 kafka 1.0.1 :2
   1.110.1 Available under license
1.111 kbd 1.15.5 :13.el7
   1.111.1 Available under license
1.112 kernel 4.14.73
   1.112.1 Available under license
1.113 kexec-tools 2.0.15 :13.el7
1.113.1 Available under license
1.114 **keyutils** 1.5.8 :3.el7
    1.114.1 Available under license
1.115 **keyutils_tools-GPLv2** 1.5.8 :3.el7
    1.115.1 Available under license
1.116 **kmod** 20 :21.el7
    1.116.1 Available under license
1.117 **krb5** 1.15.1 :19.el7
    1.117.1 Available under license
1.118 **less** 458 :9.el7
    1.118.1 Available under license
1.119 **libaio** 0.3.109 :13.el7
    1.119.1 Available under license
1.120 **libassuan** 2.1.0 :3.el7
    1.120.1 Available under license
1.121 **libcap** 2.22 :9.el7
    1.121.1 Available under license
1.122 **libcap-ng** 0.7.5 :4.el7
    1.122.1 Available under license
1.123 **libcgroup** 0.41 :15.el7
    1.123.1 Available under license
1.124 **libcroco** 0.6.11 :1.el7
    1.124.1 Available under license
1.125 **libdaemon** 0.14 :7.el7
    1.125.1 Available under license
1.126 **libdb** 5.3.21 :24.el7
    1.126.1 Available under license
1.127 **libdb4** 4.8.30 :13.el7
    1.127.1 Available under license
1.128 **libdrm** 2.4.83 :2.el7
1.129 **libedit** 3.0 :12.20121213cvs.el7
    1.129.1 Available under license
1.130 **libestr** 0.1.9 :2.el7
    1.130.1 Available under license
1.131 **libfastjson** 0.99.4 :2.el7
    1.131.1 Available under license
1.132 **libffi** 3.0.13 :18.el7
    1.132.1 Available under license
1.133 **libgcrypt** 1.5.3 :14.el7
1.133.1 Available under license
1.134 libgnome-keyring 3.12.0 :1.el7
   1.134.1 Available under license
1.135 libgpg-error 1.12 :3.el7
   1.135.1 Available under license
1.136 libidn 1.28 :4.el7
   1.136.1 Available under license
1.137 libmnl 1.0.3 :7.el7
   1.137.1 Available under license
1.138 libmodman 2.0.1 :8.el7
   1.138.1 Available under license
1.139 libmpc 1.0.1 :3.el7
   1.139.1 Available under license
1.140 libndp 1.2 :7.el7
   1.140.1 Available under license
1.141 libnetfilter_conntrack 1.0.6 :1.el7_3
   1.141.1 Available under license
1.142 libnfnetlink 1.0.1 :4.el7
   1.142.1 Available under license
1.143 libnl3 3.2.28 :4.el7
   1.143.1 Available under license
1.144 libpcap 1.5.3 :11.el7
   1.144.1 Available under license
1.145 libpciaccess 0.14 :1.el7
   1.145.1 Available under license
1.146 libpipeline 1.2.3 :3.el7
   1.146.1 Available under license
1.147 libproxy 0.4.11 :11.el7
   1.147.1 Available under license
1.148 libpwquality 1.2.3 :5.el7
   1.148.1 Available under license
1.149 libseccomp 2.3.1 :3.el7
   1.149.1 Available under license
1.150 libseccomp 2.5 :12.el7
   1.150.1 Available under license
1.151 libsemanage 2.5 :11.el7
   1.151.1 Available under license
1.152 libsepol 2.5 :8.1.el7
   1.152.1 Available under license
1.153 libsoup 2.56.0 :6.el7
   1.153.1 Available under license
1.154 libssh2 1.4.3 :10.el7_2.1
   1.154.1 Available under license
1.155 libtasn1 4.10 :1.el7
   1.155.1 Available under license
1.156 libteam 1.27 :4.el7
   1.156.1 Available under license
1.157 libunistring 0.9.3 :9.el7
   1.157.1 Available under license
1.158 libuser 0.60 :9.el7
   1.158.1 Available under license
1.159 libutempter 1.1.6 :4.el7
   1.159.1 Available under license
1.160 libverto 0.2.5 :4.el7
   1.160.1 Available under license
1.161 libxml2 2.9.1 :6.el7_2.3
   1.161.1 Available under license
1.162 libyaml 0.1.4 :11.el7_0
   1.162.1 Available under license
1.163 lm_sensors 3.4.0 :4.20160601gitf9185e5.el7
   1.163.1 Available under license
1.164 logrotate 3.8.6 :15.el7
   1.164.1 Available under license
1.165 lsof 4.87 :5.el7
1.166 lsscsi 0.27 :6.el7
   1.166.1 Available under license
1.167 lua 5.1.4 :15.el7
   1.167.1 Available under license
1.168 lvm2 2.02.177 :4.el7
   1.168.1 Available under license
1.169 lz4 1.7.5 :2.el7
   1.169.1 Available under license
1.170 lzo 2.06 :8.el7
   1.170.1 Available under license
1.171 m4 1.4.16 :10.el7
   1.171.1 Available under license
1.172 mailcap 2.1.41 :2.el7
   1.172.1 Available under license
1.173 mailx 12.5 :19.el7  
1.173.1 Available under license
1.174 make 3.82 :23.el7  
1.174.1 Available under license
1.175 man-db 2.6.3 :9.el7  
1.175.1 Available under license
1.176 mariadb 5.5.56 :2.el7  
1.176.1 Available under license
1.177 microcode_ctl 2.1 :29.el7  
1.177.1 Available under license
1.178 mlocate 0.26 :8.el7  
1.178.1 Available under license
1.179 mozjs17 17.0.0 :20.el7  
1.179.1 Available under license
1.180 mpfr 3.1.1 :4.el7  
1.180.1 Available under license
1.181 ncurses 5.9 :14.20130511.el7_4  
1.181.1 Available under license
1.182 net-tools 2.0 :0.22.20131004git.el7  
1.182.1 Available under license
1.183 nethogs 0.8.5 :1.el7  
1.183.1 Available under license
1.184 nettle 2.7.1 :8.el7  
1.184.1 Available under license
1.185 nettle/gplv2 2.7.1 :8.el7  
1.185.1 Available under license
1.186 NetworkManager 1.10.2 :13.el7  
1.186.1 Available under license
1.187 newt 0.52.15 :4.el7  
1.187.1 Available under license
1.188 nmap 7.31 :1  
1.188.1 Available under license
1.189 nspr 4.17.0 :1.el7  
1.189.1 Available under license
1.190 nss 3.34.0 :4.el7  
1.190.1 Available under license
1.191 nss-pem 1.0.3 :4.el7  
1.191.1 Available under license
1.192 nss-softokn 3.34.0 :2.el7
1.192.1 Available under license
1.193 nss-util 3.34.0 :2.el7
  1.193.1 Available under license
1.194 ntp 4.2.8p12 :5.el7.centos
  1.194.1 Available under license
1.195 numaclt 2.0.9 :7.el7
1.196 oci-register-machine 0 :6.git2b44233.el7
  1.196.1 Available under license
1.197 oci-systemd-hook 0.1.15 :2.gitc04483d.el7
  1.197.1 Available under license
1.198 openldap 2.4.44 :13.el7
  1.198.1 Available under license
1.199 openssh 7.4p1 :16.el7
  1.199.1 Available under license
1.200 openssl 1.0.2k :12.el7
  1.200.1 Available under license
1.201 os-prober 1.58 :9.el7
  1.201.1 Available under license
1.202 p11-kit 0.23.5 :3.el7
  1.202.1 Available under license
1.203 pam 1.1.8 :22.el7
  1.203.1 Available under license
1.204 parallel 20160222 :1.el7
  1.204.1 Available under license
1.205 parted 3.1 :29.el7
  1.205.1 Available under license
1.206 passwd 0.79 :4.el7
  1.206.1 Available under license
1.207 patch 2.7.1 :10.el7_5
  1.207.1 Available under license
1.208 pcre 8.32 :17.el7
  1.208.1 Available under license
1.209 pcre 8.32 :17.el7
  1.209.1 Available under license
1.210 perl 5.16.3 :292.el7
  1.210.1 Available under license
1.211 perl-Carp 1.26 :244.el7
  1.211.1 Available under license
1.212 perl-constant 1.27 :2.el7
1.212.1 Available under license
1.213 perl-Encode 2.51 :7.el7
  1.213.1 Available under license
1.214 perl-Error 0.17020 :2.el7
  1.214.1 Available under license
1.215 perl-Exporter 5.68 :3.el7
  1.215.1 Available under license
1.216 perl-File-Path 2.09 :2.el7
  1.216.1 Available under license
1.217 perl-File-Temp 0.23.01 :3.el7
  1.217.1 Available under license
1.218 perl-Filter 1.49 :3.el7
  1.218.1 Available under license
1.219 perl-Getopt-Long 2.40 :3.el7
1.220 perl-HTTP-Tiny 0.033 :3.el7
  1.220.1 Available under license
1.221 perl-parent 0.225 :244.el7
  1.221.1 Available under license
1.222 perl-PathTools 3.40 :5.el7
  1.222.1 Available under license
1.223 perl-Pod-Perldoc 3.20 :4.el7
  1.223.1 Available under license
1.224 perl-Pod-Simple 3.28 :4.el7
  1.224.1 Available under license
1.225 perl-Pod-Usage 1.63 :3.el7
  1.225.1 Available under license
1.226 perl-podlators 2.5.1 :3.el7
  1.226.1 Available under license
1.227 perl-Scalar-List-Utils 1.27 :248.el7
  1.227.1 Available under license
1.228 perl-Socket 2.010 :4.el7
  1.228.1 Available under license
1.229 perl-Storable 2.45 :3.el7
  1.229.1 Available under license
1.230 perl-TermReadKey 2.30 :20.el7
  1.230.1 Available under license
1.231 perl-Text-ParseWords 3.29 :4.el7
  1.231.1 Available under license
1.232 perl-threads 1.87 :4.el7
1.232.1 Available under license
1.233 perl-threads-shared 1.43 :6.el7
1.233.1 Available under license
1.234 perl-Time-HiRes 1.9725 :3.el7
1.234.1 Available under license
1.235 perl-Time-Local 1.2300 :2.el7
1.235.1 Available under license
1.236 pgdg-centos95 9.5 :3
1.236.1 Available under license
1.237 pinentry 0.8.1 :17.el7
1.237.1 Available under license
1.238 pkgconfig 0.27.1 :4.el7
1.238.1 Available under license
1.239 plymouth 0.8.9 :0.31.20140113.el7.centos
1.239.1 Available under license
1.240 policycoreutils 2.5 :22.el7
1.240.1 Available under license
1.241 polkit 0.112 :14.el7
1.241.1 Available under license
1.242 polkit-pkla-compat 0.1 :4.el7
1.242.1 Available under license
1.243 popt 1.13 :16.el7
1.243.1 Available under license
1.244 postfix 2.10.1 :6.el7
1.244.1 Available under license
1.245 ppp 2.4.5 :33.el7
1.245.1 Available under license
1.246 procps-ng 3.3.10 :17.el7
1.246.1 Available under license
1.247 psmisc 22.20 :15.el7
1.247.1 Available under license
1.248 pth 2.0.7 :23.el7
1.248.1 Available under license
1.249 pygobject3 3.22.0 :1.el7_4.1
1.249.1 Available under license
1.250 pygpgme 0.3 :9.el7
1.250.1 Available under license
1.251 pyliblzma 0.5.3 :11.el7
1.251.1 Available under license
1.252 Python 2.7.15 2.7.15
   1.252.1 Available under license
1.253 python-backports 1.0 :8.el7
   1.253.1 Available under license
1.254 python-backports-ssl_match_hostname 3.5.0.1 :1.el7
   1.254.1 Available under license
1.255 python-cffi 1.6.0 :5.el7
   1.255.1 Available under license
1.256 python-chardet 2.2.1 :1.el7_1
   1.256.1 Available under license
1.257 python-configobj 4.7.2 :7.el7
   1.257.1 Available under license
1.258 python-crypto 2.6.1 :15.el7
   1.258.1 Available under license
1.259 python-cryptography 1.7.2 :2.el7
   1.259.1 Available under license
1.260 python-decorator 3.4.0 :3.el7
   1.260.1 Available under license
1.261 python-enum34 1.0.4 :1.el7
   1.261.1 Available under license
1.262 python-httplib2 0.9.2 :1.el7
   1.262.1 Available under license
1.263 python-idna 2.4 :1.el7
   1.263.1 Available under license
1.264 python-iniparse 0.4 :9.el7
   1.264.1 Available under license
1.265 python-ipaddress 1.0.16 :2.el7
   1.265.1 Available under license
1.266 python-IPy 0.75 :6.el7
   1.266.1 Available under license
1.267 python-jinja2 2.8 :7.rhel7
   1.267.1 Available under license
1.268 python-jmespath 0.9.0 :3.el7
   1.268.1 Available under license
1.269 python-keyczar 0.71c :2.el7
   1.269.1 Available under license
1.270 python-kitchen 1.1.1 :5.el7
   1.270.1 Available under license
1.271 python-linux-procs 0.4.9 :3.el7
1.271.1 Available under license
1.272 python-markupsafe 0.11 :10.el7
   1.272.1 Available under license
1.273 python-paramiko 2.1.1 :4.el7
   1.273.1 Available under license
1.274 python-ply 3.4 :11.el7
1.275 python-pyasn1 0.1.9 :7.el7
   1.275.1 Available under license
1.276 python-pycparser 2.14 :1.el7
   1.276.1 Available under license
1.277 python-ycurl 7.19.0 :19.el7
   1.277.1 Available under license
1.278 python-pyudev 0.15 :9.el7
   1.278.1 Available under license
1.279 python-schedutils 0.4 :6.el7
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1.7 apr 1.4.8 :3.el7_4.1

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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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
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From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi.  I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0.  Thanks.

Sure.  I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz.  There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away.  :-)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey
I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

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***

* GPars (Groovy Parallel Systems): a groovy concurrency library.
* It provides support for configuring parallel system using Groovy
* The project resides at http://gpars.codehaus.org
*/
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* */

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this/Lorg/apache/ivy/core/module/descriptor/License;getName()Ljava/lang/String;getUrl
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JUnit

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1.24 bind 9.9.4 :61.el7

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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.

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

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* 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.

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1.25 binutils 2.27 :27.base.el7

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.
John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.
Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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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.

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

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

"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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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.

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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.

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.

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.

7. You may place library facilities that are a work based on the
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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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Preamble

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

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

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

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

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

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

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

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

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

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

"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.

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1
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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
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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.

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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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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
1.26 biosdevname 0.7.3 :1.el7

1.26.1 Available under license:

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1.27 boost 1.53.0 :27.el7
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Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
 :+: mpl::identity<T>
 #if defined(__MWERKS__)
   , aux::print_base
-#endif
+#endif
+ if defined(BOOST_MSVC)
+enum { n = sizeof(T) + -1 };
+elif defined(__MWERKS__)
+ void f(int);
-#else
-    enum {
-        n =
-# if defined(__EDG_VERSION__) 
-           aux::dependent_unsigned<T>::value > -1
-# else
-           sizeof(T) > -1 
-# endif
-        };
-# endif
- elseif defined(__EDG_VERSION__) 
-    aux::dependent_unsigned<T>::value > -1
-# else
-    sizeof(T) > -1
-# endif
-#endif
+elif defined(__EDG_VERSION__) 
+    enum { n = aux::dependent_unsigned<T>::value > -1 };
+elif defined(BOOST_GCC) 
+    enum { n1 };
+    enum { n2 };
+    enum { n = n1 != n2 };
+else
+    enum { n = sizeof(T) > -1 };
+endif


#if defined(BOOST_MSVC)
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[article Invalid copyright years
[quickbook 1.5]
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]
/*
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* *
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
// struct split_path
// {
//  const fs::path& root;
const fs::path& file;
split_path(const fs::path& r, const fs::path& f)
 : root(r), file(f){}
private:
split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">
    " << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \""-//W3C//DTD HTML 4.0 Transitional//EN\"">\n        "<html>
        "<head>\n        "<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</title>
" << "</head>
" << "<body>
" << "<H1>Boost Licence Dependency Information</H1>
" << "<H2>Contents</h2>
" << "<pre><a href="#input">Input Information</a>
";

if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</H1>
" << "</H2>Contents</h2>
";

if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
";

os << "<a href="#details">Licence Details</a>
";

while(i != j)
{
    // title:
    os << "<A href=""" << make_link_target(licenses.first[i->first].license_name)
    << "">" << licenses.first[i->first].license_name << "</a>
";
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
";

"<a href="#authors">Files with no recognised copyright holder</a>
";

if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
";
    "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
";
    "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
";
    "<a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
";
    "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
";
}

os << "<a href="#depend">File Dependency Information</a>
";

//
// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
  os << "<P>The following files were scanned for boost dependencies:<BR>";
else
  os << "<P>The following Boost modules were checked:<BR>";
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
  os << *si << "<BR>";
  ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>"
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):  
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("
  "[[[:blank:]]*\#\[[[:blank:]]*define[[[:blank:]]]+BOOST_VERSION[[[:blank:]]]+(\d+)]"
  boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
  int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</P>";
}
//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
  // start with the summary:
  //
os << "<a name="summary"></a><h2>Licence Summary</h2>
  while(i != j)
  {
    // title:
os << "<H3>" << licenses.first[i->first].license_name << "</H3>";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
  }
// Copyright holders:
os << "<P>This license is used by " "<i>second.authors.size()" " authors and " "<i>second.files.size()" " files <a href="#" make_link_target(licenses.first[i->first].license_name) "(see details)</a>";
os << "</P></BLOCKQUOTE>\n";
++i;
}

// and now the details:

i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
os << "<H3><A name="" make_link_target(licenses.first[i->first].license_name) ""></a>" licenses.first[i->first].license_name "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" licenses.first[i->first].license_text "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
os << "<P>This license is used by the following " "<i>second.authors.size()" " copyright holders:"<P>\n";
        std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) "<br>
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
os << "<P>This license applies to the following " "<i>second.files.size()" " files:"<P>\n";
        std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) "<br>
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
} else {
  os << "This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
  os << "This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
} ++license_index;
++i;
}

// Output list of files not found to be under license control:
//
// os << "Files With No Recognisable Licence</h2>\n"
"The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2) {
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
} os << "</p></BLOCKQUOTE>";

// Output list of files with no found copyright holder:
//
// os << "Files With No Recognisable Copyright Holder</h2>\n"
"The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P>\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2) {
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
} os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode) {
  // Output list of files that have been moved over to the Boost Software License, along with enough information for human verification.
  // os << "Files that can be automatically converted to the Boost Software License</h2>\n"
The following "m_converted_to_bsl.size()" files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

```cpp
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>
[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
<< "<tt>
" << i->second.first << 
"</pre></td>
  <td><pre>
" << i->second.second << 
"</pre></td>
</table>
";
        ++i;
        ++file_num;
    }
}
```

Output list of files that could be moved over to the Boost Software License

```cpp
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>

The following "m_can_migrate_to_bsl.size()" files could be manually converted to the Boost Software License, but have not yet been:
```
```cpp
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << 
"</pre>
";
    ++i2;
}
```

Output list of files that can NOT be converted to the Boost Software License

```cpp
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>

The following "m_cannot_migrate_to_bsl.size()" files cannot be converted to the Boost Software License because we need the permission of more authors:
```
```cpp
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << 
"</pre>
";
    ++i2;
}
```


// Output list of authors that we need permission for to move to the BSL.
//
// os << "\n\n<h2><a name="need-bsl-authors">Authors we need for the BSL</a></h2><p>
"Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>"));

os << "\n</p></BLOCKQUOTE>
"

// output a table of copyright information:
//
// os << "<h2><a name="copyright">Copyright Holder Information</a></h2><table border="1">

std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>
    ++ad;
}
eset<fs::path, path_less>::const_iterator dep, last_dep;

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;

std::set<fs::path, path_less>::const_iterator fi, efi;

if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
}
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>
};
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
    while(true)
    {
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
            os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
            os << split_path(fs::path(), dep->second);
        else
            os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
        {
            os << " <I>(Circular dependency!)</I>",
            break; // circular dependency!!!
        }
        seen_deps.insert(dep->second);
        last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
            break;
    }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in
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 Dosser (dosser@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 Detlef (detlef@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@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.)

Boost.Geometry (aka GGL, Generic Geometry Library)

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- implemented file-format e.g. WKB
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-->
MPL Interoperability

All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`).
All the value based traits in this library conform to MPL’s requirements for an Integral Constant type; that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that true_type inherits from boost::mpl::true_, false_type inherits from boost::mpl::false_, and integral_constant<T,v> inherits from boost::mpl::integral_c<T,v> (provided T is not bool)


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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant {
static const T value = val;

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant {
static const T value = val;

#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#endif

#endif

# ifndef _MSC_VER
# define _MSC_VER 1200
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant {
static const T value = val;

}
typedef integral_constant<T, val> type;

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_.value; }
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {}; 

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {}; 

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstdlib>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

        template <class T, T val>
        struct integral_constant {
            static const T value = val;
            typedef integral_constant<T, val> type;
        };

        template <bool C_>
        struct bool_ : integral_constant<bool, C_> {
            static const bool value = C_;}
        };

        typedef bool_<true>    true_;
        typedef bool_<false>   false_;

        typedef true_  true_type;
        typedef false_ false_type;

        typedef char      yes_type;
        struct no_type {
            char padding[8];
        };

        template <bool B, class T = void>
        struct enable_if_c {
            typedef T type;
        };

        template <class T>
        struct enable_if_c<false, T> {};

        template <class Cond, class T = void>
        struct enable_if : public enable_if_c<Cond::value, T> {};

        template <class Cond, class T = void>
        struct enable_if<false, T> {};

        }}
    }
}
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
    // : public std::unary_function<Pair, typename Pair::first_type>
{
template<class OtherPair>
const typename Pair::first_type& operator()(const OtherPair& x) const
{  return x.first;   }

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
   typedef T type;
   const T& operator()(const T& x) const
   {  return x;   }
};

template<std::size_t S>
struct ls_zeros
{
   static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>  
struct ls_zeros<0>
{
   static const std::size_t value = 0;
};

template<>  
struct ls_zeros<1>
{
   static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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#
///////////////////////////////////////////////////////////////////////////////

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef true_type yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c { 
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> { 
};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> { 
};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
   bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
   typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
   typename C
 , typename T1
 , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
   bool C

struct eval_if_c
    : if_c<C,F1,F2>::type
{};

template<
    typename C
    , typename T1
    , typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
    static const bool value = true;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (*)()>
{ static const bool value = true; }

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(...)>
{ static const bool value = true; }

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(...)>
{ static const bool value = true; }

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)...>
{ static const bool value = true; }

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)...>
{ static const bool value = true; }

#endif
template<typename R, class T0>
struct is_unary_or_binary_function_impl<R(__cdecl*)(T0)>
{
    static const bool value = true;
};

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R(__cdecl*)(T0...)>
{
    static const bool value = true;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

// boost ticket #4094
template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R(*)(T0, T1)>
{
    static const bool value = true;
};

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R(*)(T0, T1...)>
{
    static const bool value = true;
};
#endif

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R(__stdcall*)(T0, T1)>
{
    static const bool value = true;
};

#ifdef _MANAGED
template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R(__fastcall*)(T0, T1)>
{
    static const bool value = true;
};
#endif
#endif


template <typename T>
struct is_unary_or_binary_function_impl<T&>
{
    static const bool value = false;
};

template<typename T>
struct is_unary_or_binary_function
{
    static const bool value = is_unary_or_binary_function_impl<T>::value;
};

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template <typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);
static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;  };

template<typename T>
struct remove_const
{  typedef  T type;  };

template<typename T>
struct remove_const<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv
{  typedef T type;  };

template<typename T>
struct remove_cv<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;  };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  };

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    }

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

1.28 btrfs-progs 4.9.1 :1.el7
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### Special Recognition ###

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to
setup a large build machine, then tune the build process and help improve
the overall build, test and validate process we were using. This build
machine he donated to the project was about 5 times more capable than the
entire build system we had. And he did this out of his own pocket, from
his own time, and has since upgraded the machine as well. It's now a 128GB,
48 core machine, with 4 SSD's and 4 sata disks: but the key metric is
that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver
CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix,
AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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

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

<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.

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

You should also get your employer (if you work as a programmer) or school,
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Public License instead of this License.  But first, please read

1.37 cracklib 2.9.0 :11.el7
1.37.1 Available under license :

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
----------
Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[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 under
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
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
GPL-2 ... it was a modified artistic license ... i didn't notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir
applications are also GPL-2 which imo is just wrong. it isn't 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
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 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 GPL-2 ... it was a modified artistic license ... I didn't notice the change until it was mentioned in the latest notes. Unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. It isn't the place of a library to dictate to application writes what license they should be using. Thus LGPL-2.1 enters to fill this void.

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?
> >>
> > > 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.

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 ([131.151.1.143]) by scanim-ipv6.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 l91Gxtpr020623
 for <nneul@umr.edu>; Mon,  1 Oct 2007 12:26:02 -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 1lcOcX-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: <1b1b3fd80710010908k11dac0afp1f2dd471059f9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<br1b1b3fd80710010908k11dac0afp1f2dd471059f9a4@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

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Version 2.1, February 1999

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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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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.

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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.

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4L

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school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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library 'Frob' (a library for tweaking knobs) written by James
Random Hacker.

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-------------------------------------
-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[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
=20mike
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.

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

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

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
> 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 GPL-2 ... it was a modified artistic license ... i didnt notice the license change until it was mentioned in the latest notes.
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong, it isn't the
> place of a
> library to dictate 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 you 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 you 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?
>
> 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.

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 (8.13.1/8.13.1) with ESMTP id l91Gxtp020623
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 11cOcX-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-56FBEFEBE6E9F@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]
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? :-)
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1.39 crontabs 1.11 :6.20121102git.el7

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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 Program, 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 Program.

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

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

a) 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; or,

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

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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
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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.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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

Preamble

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

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

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

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

"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.

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

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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.

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.

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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
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Appendix: How to Apply These Terms to Your New Libraries

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

That's all there is to it!

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<OL>

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<OL TYPE="a">

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</OL>

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</OL>

</LI>

</OL>

</LI>

</UL>

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<H2 CLASS="title"><A NAME="KERBEROS">Kerberos Support Code</A></H2>

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type `show w'.  This is free software, and you are welcome
to redistribute it under certain conditions; type `show c'
for details.
</pre>

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</pre>
(which makes passes at compilers) written by James Hacker.

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

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**krb4**

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1.46 dbus-python 1.1.1 :9.el7

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1.47 device-mapper-multipath 0.4.9 :119.el7

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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, while the latter only works together with the library.

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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.

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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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That's all there is to it!

1.48 device-mapper-persistent-data 0.7.3 :3.el7

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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 form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c4ff2bb5b6.

   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>

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Theodore Ts'o
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/*

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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
** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released

# 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) $(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-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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least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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from a designated place, offer equivalent access to copy the above
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Program             Directory
-------             ---------
mach_override       lib/interception/mach_override
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) \
fprintf ((FILE), \t.space "HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)),\n  assemble_name ((FILE), (NAME)),\n  fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm ", (FILE)),\n  assemble_name ((FILE), (NAME)),\n  fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
```c
#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
   that says to advance the location counter 
   to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\  
  if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF 
   the symbol_ref name of an internal numbered label where 
   PREFIX is the class of label and NUM is the number within the class. 
   This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  
  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
@ignore
@c Set file name and title for man page.
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@settitle GNU Free Documentation License
@c man begin SEEALSO
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satisfy these requirements.

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

@end enumerate

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
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@end enumerate

@end heading

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

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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 Dosser (dosser@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 (martintauachmann@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 Jansen (jansen@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 (agec@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.) Boost Software License - Version 1.0 - August 17th, 2003

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#
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#
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# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
        ''])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')

    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
    )

    # Skip imported texinfo files.
    }

    return None

    (base, extension) = os.path.splitext(os.path.join(dir, filename))

if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True

        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True

    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]+[-0-9,.\s]+[0-9]+'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w-\w' 

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')
self.continuation_re = re.compile (ranges + | name)

self.copyright_re = re.compile (  
# 1: 'Copyright (C)', etc.  
'(\[Cc\]opyright\s+\(\[Cc\]\))'  
\([Cc]\)opyright\s+\%s'  
\([Cc]\)opyright\s+"copy\'.  
\([Cc]\)opyright\s+@copyright\'}'  
'\[@set\s+copyright\[w-\]+)'

# 2: the years. Include the whitespace in the year, so that  
# we can remove any excess.  
'(\s*\(?:' + ranges + '\,?'  
\[@value\{([^}]\})\s*)'

# 3: 'by ', if used  
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive  
# spaces, so that right-margin gloss doesn't get caught  
# (e.g. gnat_ugn.texi).  
'(\' + name + '(?\s?' + name + ')*)\)'  

# A regexp for notices that might have slipped by. Just matching  
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of  
# HTML header markers, so check for 'copyright' and two digits.  
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',  
re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')  
self.holders = { '@copying': '@copying' }  
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.  
self.use_quilt = False

# If set, force all notices to include this year.  
self.max_year = None

# Goes after the year(s). Could be ',', '.  
self.separator = ','

def add_package_author (self, holder, canon_form = None):  
  if not canon_form:  
    canon_form = holder
self.holders[holder] = canon_form
index = holder.find (" ")
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (" ", index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break
                # If the next line doesn’t look like a proper continuation,
                # assume that what we’ve got is complete.
                continuation = self.strip_continuation(next_line)
                if not self.continuation_re.match(continuation):
                    break
                line = line[after_years + self.continuation_re.match(continuation):]
# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)'
elif intro.endswith('(')
    intro = intro[:-3] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search(line):
                    self.errors.report(pathname,
                                       'unrecognised copyright: %s'
                                       % line.strip())
                lines.append(line)
line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...
        ' % sys.argv[0])
    format = '%-15s %s
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-'
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                    self.copyright.process_tree (dir, filter)
                if count == 0:
self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
        )

        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        )

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        )
self.fossilised_files |= set (
    # Old news won't be updated.
    'ONEWS',
    )

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        )

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        )

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Imported from GLIBC.
        )
class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',
        ])

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])
# The testsuite data files shouldn't be changed.
'data',

# Contains imported images
'images',
]

self.own_files |= set ([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.'
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('..', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libjava', LibJavaFilter())
        self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir('libmudflap', LibMudflapFilter())
        self.add_dir(os.path.join('libmudflap', 'testsuite'),
                     TestsuiteFilter())
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir('libssp')
        self.add_dir('libstdc++-v3', LibStdCxxFilter())
        self.add_dir('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
'gcc',
'libada',
'libatomic',
'libbacktrace',
'libcpp',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libitm',
'libmudflap',
'libobjc',
'libstdc++-v3',
]

GCCCmdLine().main()

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
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1135

Open Source Used In Network Assurance Engine Release 3.0(1)
0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a compilation process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library. <br />

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The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine bytecode, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or...
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withotherGPL-compatiblesoftware,orifitisdonewithoutusingany<br />
workbasedonGCC.Forexample,usingnon-GPL-compatibleSoftwareto<br />
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }
}
public boolean inOverview() {
    return true;
}

class public boolean inPackage() {
    return true;
}

class public boolean inType() {
    return true;
}

class public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

class public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt> ");
                }
            result.append("</dl> ");
        return result.toString();
    }

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
else {
    return null;
}
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;
This class is the abstract superclass of all classes that implement
the concept of a permission. A permission consists of a permission name
and optionally a list of actions that relate to the permission. The
actual meaning of the name of the permission is defined only in the
context of a subclass. It may name a resource to which access permissions
are granted (for example, the name of a file) or it might represent
something else entirely. Similarly, the action list only has meaning
within the context of a subclass. Some permission names may have no
actions associated with them. That is, you either have the permission
or you don't.

The most important method in this class is \texttt{implies}. This
permission is also implied. As a conceptual example, consider the
permissions "Read All Files" and "Read File foo". The permission
"Read All Files" implies that the caller has permission to read the
file foo.

\texttt{Permission}'s must be immutable - do not change their
state after creation.

@author Aaron M. Renn (arenn@urbanophile.com)
@see Permissions
@see PermissionCollection
@since 1.1
@status updated to 1.4

public abstract class Permission implements Guard, Serializable
{

/**
 * Compatible with JDK 1.1+
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name) {
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It must satisfy the contract of <code>Object.hashCode</code>: it must be the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
string = string.append('(');
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());
if (!(getActions().equals("")))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
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exception statement from your version. */

package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>
 * as a <code>String</code> representing this permission.
 */
String toString();
}

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1.76 glib-networking 2.50.0 :1.el7
1.76.1 Available under license:

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[This is the first released version of the library GPL. It is
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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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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.

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.

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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To apply these terms, attach the following notices to the library. 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.

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That’s all there is to it!
PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End

1.78 glibc 2.17 :222.el7
1.78.1 Available under license :

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Preamble

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

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

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

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

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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

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

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.)

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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.

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.

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.

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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.

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.

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uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
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Appendix: How to Apply These Terms to Your New Libraries

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## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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1.82 gobject-introspection 1.50.0 :1.el7

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- 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

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The original package can be found at

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

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

src/devices/xditview/DESC.in
c src/devices/xditview/Dvi.c
c src/devices/xditview/Dvi.h
c src/devices/xditview/DviP.h
c src/devices/xditview/FontMap
c src/devices/xditview/GXditview.ad
c src/devices/xditview/Menu.h
c src/devices/xditview/ad2c
c src/devices/xditview/device.c
c src/devices/xditview/device.h
c src/devices/xditview/draw.c
c src/devices/xditview/font.c
c src/devices/xditview/gray1.bm
c src/devices/xditview/gray2.bm
c src/devices/xditview/gray3.bm
c src/devices/xditview/gray4.bm
c src/devices/xditview/gray5.bm
c src/devices/xditview/gray6.bm
c src/devices/xditview/gray7.bm
c src/devices/xditview/gray8.bm
c src/devices/xditview/gxditview.man
c src/devices/xditview/lex.c
c src/devices/xditview/page.c
c src/devices/xditview/parse.c
c src/devices/xditview/xdit.bm
c 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
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. The file `tmac/hyphen.fr’ contains the same patterns as the file
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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/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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Public License instead of this License.  But first, please read
1.87 groovy 2.4.10

1.88 grub2 2.02 :0.65.el7.centos.2

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From 0d1fa50e41f12fbeb6709575e5f12d64ed73b66 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <shed>  
Date: Sun, 22 Jun 2014 01:35:52 +0200  
Subject: [PATCH 085/260] * grub-core/loader/i386/bsd.c (grub_netbsd_boot):  
Pass pointer to EFI system table.

---  
ChangeLog | 5 +++++
grub-core/loader/i386/bsd.c | 8 ++++++++  
include/grub/i386/netbsd_bootinfo.h | 7 +++++++
3 files changed, 20 insertions(+)

diff --git a/ChangeLog b/ChangeLog  
index abf8f4b27..0cdd095a4 100644  
--- a/ChangeLog  
+++ b/ChangeLog  
@@ -1,5 +1,10 @@
2014-06-21 Stephane Rochoy <shed>  
+	* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to  
+EFI system table.
+  
+2014-06-21 Stephane Rochoy <shed>  
+
+* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show  
EFI system table physical address.

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c  
index 41ef9109e..8f691e0e2 100644  
--- a/grub-core/loader/i386/bsd.c  
+++ b/grub-core/loader/i386/bsd.c  
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)  
if (err)  
  return err;

+#ifdef GRUB_MACHINE_EFI  
+ err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,  
+ &grub_efi_system_table,  
+ sizeof (grub_efi_system_table));
if (err)
  return err;
#endif
{
  struct bsd_tag *tag;
  tag_buf_len = 0;

diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b40..9b4f46041 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE	10
#define NETBSD_BTINFO_MODULES	11
#define NETBSD_BTINFO_FRAMEBUF	12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI	14

struct grub_netbsd_bootinfo
{
  @ @ -146,4 +148,9 @ @ struct grub_netbsd_btinfo_framebuf

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{ +
  + void *pa_systbl; /* Physical address of the EFI System Table */
+}; +
+
#endif
--
2.13.0
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For:
XML Commons External Components XML APIs 1.3.04
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JUnit 4.11
ecj-4.3.1.jar
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*/
package org.apache.hadoop.fs.permission;

import static org.junit.Assert.*;
import org.junit.BeforeClass;
import org.junit.Test;

/**
* Tests covering basic functionality of the ACL objects.
*/
public class TestAcl {
    private static AclEntry ENTRY1, ENTRY2, ENTRY3, ENTRY4, ENTRY5, ENTRY6,
    ENTRY7, ENTRY8, ENTRY9, ENTRY10, ENTRY11, ENTRY12, ENTRY13;
    private static AclStatus STATUS1, STATUS2, STATUS3, STATUS4;

    @BeforeClass
    public static void setUp() {
        // named user
        AclEntry.Builder aclEntryBuilder = new AclEntry.Builder()
            .setType(AclEntryType.USER)
            .setName("user1")
            .setPermission(FsAction.ALL);
        ENTRY1 = aclEntryBuilder.build();
        ENTRY2 = aclEntryBuilder.build();
        // named group
        ENTRY3 = new AclEntry.Builder()
            .setType(AclEntryType.GROUP)
            .setName("group2")
            .setPermission(FsAction.READ_WRITE)
            .build();
        // default other
        ENTRY4 = new AclEntry.Builder()
            .setType(AclEntryType.OTHER)
            .setPermission(FsAction.NONE)
            .setScope(AclEntryScope.DEFAULT)
.build();
// owner
ENTRY5 = new AclEntry.Builder()
  .setType(AclEntryType.USER)
  .setPermission(FsAction.ALL)
  .build();
// default named group
ENTRY6 = new AclEntry.Builder()
  .setType(AclEntryType.GROUP)
  .setName("group3")
  .setPermission(FsAction.READ_WRITE)
  .setScope(AclEntryScope.DEFAULT)
  .build();
// other
ENTRY7 = new AclEntry.Builder()
  .setType(AclEntryType.OTHER)
  .setPermission(FsAction.NONE)
  .build();
// default named user
ENTRY8 = new AclEntry.Builder()
  .setType(AclEntryType.USER)
  .setName("user3")
  .setPermission(FsAction.ALL)
  .setScope(AclEntryScope.DEFAULT)
  .build();
// mask
ENTRY9 = new AclEntry.Builder()
  .setType(AclEntryType.MASK)
  .setPermission(FsAction.READ)
  .build();
// default mask
ENTRY10 = new AclEntry.Builder()
  .setType(AclEntryType.MASK)
  .setPermission(FsAction.READ_EXECUTE)
  .setScope(AclEntryScope.DEFAULT)
  .build();
// group
ENTRY11 = new AclEntry.Builder()
  .setType(AclEntryType.GROUP)
  .setPermission(FsAction.READ)
  .build();
// default group
ENTRY12 = new AclEntry.Builder()
  .setType(AclEntryType.GROUP)
  .setPermission(FsAction.READ)
  .setScope(AclEntryScope.DEFAULT)
  .build();
// default owner
ENTRY13 = new AclEntry.Builder()
    .setType(AclEntryType.USER)
    .setPermission(FsAction.ALL)
    .setScope(AclEntryScope.DEFAULT)
    .build();

AclStatus.Builder aclStatusBuilder = new AclStatus.Builder()
    .owner("owner1")
    .group("group1")
    .addEntry(ENTRY1)
    .addEntry(ENTRY3)
    .addEntry(ENTRY4);
STATUS1 = aclStatusBuilder.build();
STATUS2 = aclStatusBuilder.build();
STATUS3 = new AclStatus.Builder()
    .owner("owner2")
    .group("group2")
    .stickyBit(true)
    .build();

STATUS4 = new AclStatus.Builder()
    .addEntry(ENTRY1)
    .addEntry(ENTRY3)
    .addEntry(ENTRY4)
    .addEntry(ENTRY5)
    .addEntry(ENTRY6)
    .addEntry(ENTRY7)
    .addEntry(ENTRY8)
    .addEntry(ENTRY9)
    .addEntry(ENTRY10)
    .addEntry(ENTRY11)
    .addEntry(ENTRY12)
    .addEntry(ENTRY13)
    .build();
}

@Test
public void testEntryEquals() {
    assertNotSame(ENTRY1, ENTRY2);
    assertNotSame(ENTRY1, ENTRY3);
    assertNotSame(ENTRY1, ENTRY4);
    assertNotSame(ENTRY2, ENTRY3);
    assertNotSame(ENTRY2, ENTRY4);
    assertNotSame(ENTRY3, ENTRY4);
    assertEquals(ENTRY1, ENTRY1);
    assertEquals(ENTRY2, ENTRY2);
    assertEquals(ENTRY1, ENTRY2);
    assertEquals(ENTRY2, ENTRY1);
}
assertFalse(ENTRY1.equals(ENTRY3));
assertFalse(ENTRY1.equals(ENTRY4));
assertFalse(ENTRY3.equals(ENTRY4));
assertFalse(ENTRY1.equals(null));
assertFalse(ENTRY1.equals(new Object()));
}

@Test
dpublic void testEntryHashCode() {
    assertEquals(ENTRY1.hashCode(), ENTRY2.hashCode());
    assertFalse(ENTRY1.hashCode() == ENTRY3.hashCode());
    assertFalse(ENTRY1.hashCode() == ENTRY4.hashCode());
    assertFalse(ENTRY3.hashCode() == ENTRY4.hashCode());
}

@Test
dpublic void testEntryScopeIsAccessIfUnspecified() {
    assertEquals(AclEntryScope.ACCESS, ENTRY1.getScope());
    assertEquals(AclEntryScope.ACCESS, ENTRY2.getScope());
    assertEquals(AclEntryScope.ACCESS, ENTRY3.getScope());
    assertEquals(AclEntryScope.DEFAULT, ENTRY4.getScope());
}

@Test
dpublic void testStatusEquals() {
    assertNotSame(STATUS1, STATUS2);
    assertNotSame(STATUS1, STATUS3);
    assertNotSame(STATUS2, STATUS3);
    assertEquals(STATUS1, STATUS1);
    assertEquals(STATUS2, STATUS2);
    assertEquals(STATUS1, STATUS2);
    assertEquals(STATUS2, STATUS1);
    assertFalse(STATUS1.equals(STATUS3));
    assertFalse(STATUS2.equals(STATUS3));
    assertFalse(STATUS1.equals(null));
    assertFalse(STATUS1.equals(new Object()));
}

@Test
dpublic void testStatusHashCode() {
    assertEquals(STATUS1.hashCode(), STATUS2.hashCode());
    assertFalse(STATUS1.hashCode() == STATUS3.hashCode());
}

@Test
dpublic void testToString() {
    assertEquals("user:user1:rwx", ENTRY1.toString());
    assertEquals("user:user1:rwx", ENTRY2.toString());
assertEquals("group:group2:rw-", ENTRY3.toString());
assertEquals("default:other::---", ENTRY4.toString());

assertEquals(
    "owner: owner1, group: group1, acl: {entries: [user:user1:rwx, group:group2:rw-, default:other::---], stickyBit: false}",
    STATUS1.toString());
assertEquals(
    "owner: owner1, group: group1, acl: {entries: [user:user1:rwx, group:group2:rw-, default:other::---], stickyBit: false}",
    STATUS2.toString());
assertEquals(
    "owner: owner2, group: group2, acl: {entries: [], stickyBit: true}",
    STATUS3.toString());
}

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 */
package org.apache.hadoop.fs.permission;

import java.io.IOException;
import org.apache.hadoop.conf.Configuration;
import junit.framework.TestCase;
import static org.apache.hadoop.fs.permission.FsAction.*;

public class TestFsPermission extends TestCase {
    public void testFsAction() {
        //implies
        for(FsAction a : FsAction.values()) {
            assertTrue(ALL.implies(a));
        }
    }
}

for(FsAction a : FsAction.values()) {
    assertTrue(a == NONE? NONE.implies(a): !NONE.implies(a));
}

for(FsAction a : FsAction.values()) {
    assertTrue(a == READ_EXECUTE || a == READ || a == EXECUTE || a == NONE?
    READ_EXECUTE.implies(a): !READ_EXECUTE.implies(a));
}

//masks
assertEquals(EXECUTE, EXECUTE.and(READ_EXECUTE));
assertEquals(READ, READ.and(READ_EXECUTE));
assertEquals(NONE, WRITE.and(READ_EXECUTE));

assertEquals(READ, READ_EXECUTE.and(READ_WRITE));
assertEquals(NONE, READ_EXECUTE.and(WRITE));
assertEquals(WRITE_EXECUTE, ALL.and(WRITE_EXECUTE));
}

/**
 * Ensure that when manually specifying permission modes we get
 * the expected values back out for all combinations
 */
public void testConvertingPermissions() {
    for(short s = 0; s <= 01777; s++) {
        assertEquals(s, new FsPermission(s).toShort());
    }

    short s = 0;
    for(boolean sb : new boolean [] { false, true }) {
        for(FsAction u : FsAction.values()) {
            for(FsAction g : FsAction.values()) {
                for(FsAction o : FsAction.values()) {
                    FsPermission f = new FsPermission(u, g, o, sb);
                    assertEquals(s, f.toShort());
                    FsPermission f2 = new FsPermission(f);
                    assertEquals(s, f2.toShort());
                    s++;
                }
            }
        }
    }

    public void testSpecialBitsToString() {

for (boolean sb : new boolean[] { false, true }) {
    for (FsAction u : FsAction.values()) {
        for (FsAction g : FsAction.values()) {
            for (FsAction o : FsAction.values()) {
                FsPermission f = new FsPermission(u, g, o, sb);
                String fString = f.toString();

                // Check that sticky bit is represented correctly.
                if (f.getStickyBit() && f.getOtherAction().implies(EXECUTE))
                    assertEquals('t', fString.charAt(8));
                else if (f.getStickyBit() && !f.getOtherAction().implies(EXECUTE))
                    assertEquals('T', fString.charAt(8));
                else if (!f.getStickyBit() && f.getOtherAction().implies(EXECUTE))
                    assertEquals('x', fString.charAt(8));
                else
                    assertEquals('-', fString.charAt(8));

                assertEquals(9, fString.length());
            }
        }
    }
}

public void testFsPermission() {
    String symbolic = "-rw-xr-xr-x";

    for(int i = 0; i < (1 << 10); i++) {
        StringBuilder b = new StringBuilder("----------");
        String binary = String.format("%11s", Integer.toBinaryString(i));
        String permBinary = binary.substring(2, binary.length());
        int len = permBinary.length();
        for(int j = 0; j < len; j++) {
            if (permBinary.charAt(j) == '1') {
                int k = 9 - (len - 1 - j);
                b.setCharAt(k, symbolic.charAt(k));
            }
        }

        // Check for sticky bit.
        if (binary.charAt(1) == '1') {
            char replacement = b.charAt(9) == 'x' ? 't' : 'T';
            b.setCharAt(9, replacement);
        }

        assertEquals(i, FsPermission.valueOf(b.toString()).toShort());
    }
}
public void testUMaskParser() throws IOException {
    Configuration conf = new Configuration();

    // Ensure that we get the right octal values back for all legal values
    for(FsAction u : FsAction.values()) {
        for(FsAction g : FsAction.values()) {
            for(FsAction o : FsAction.values()) {
                FsPermission f = new FsPermission(u, g, o);
                String asOctal = String.format("%1$03o", f.toShort());
                conf.set(FsPermission.UMASK_LABEL, asOctal);
                FsPermission fromConf = FsPermission.getUMask(conf);
                assertEquals(f, fromConf);
            }
        }
    }
}

public void testSymbolicUmasks() {
    Configuration conf = new Configuration();

    // Test some symbolic to octal settings
    // Symbolic umask list is generated in linux shell using by the command:
    // umask 0; umask <octal number>; umask -S
    String [][] symbolic = new String [][] {
        {"u=rw", "111",},
        {"u=rwx,g=rwx,o=rwx", "0",},
        {"u=rwx,g=rwx,o=rw", "1",},
        {"u=rwx,g=rwx,o=rx", "2",},
        {"u=rwx,g=rwx,o=r", "3",},
        {"u=rwx,g=rwx,o=wx", "4",},
        {"u=rwx,g=rwx,o=w", "5",},
        {"u=rwx,g=rwx,o=x", "6",},
        {"u=rwx,g=rwx,o="", "7",},
        {"u=rwx,g=rw,o=rwx", "10",},
        {"u=rwx,g=rw,o=rw", "11",},
        {"u=rwx,g=rw,o=rx", "12",},
        {"u=rwx,g=rw,o=r", "13",},
        {"u=rwx,g=rw,o=wx", "14",},
        {"u=rwx,g=rw,o=w", "15",},
        {"u=rwx,g=rw,o=x", "16",},
        {"u=rwx,g=rw,o="", "17",},
        {"u=rwx,g=rx,o=rwx", "20",},
        {"u=rwx,g=rx,o=rw", "21",},
        {"u=rwx,g=rx,o=rx", "22",},
        {"u=rwx,g=rx,o=r", "23",},
    };
    conf.set(FsPermission.UMASK_SYMBOLIC, symbolic);
    FsPermission fromConf = FsPermission.getUMask(conf);
    assertEquals(f, fromConf);
}
<table>
<thead>
<tr>
<th>Access Mode 1</th>
<th>Access Mode 2</th>
<th>Access Mode 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>u=rw,g=rwx,o=wx</td>
<td>u=rw,g=rwx,o=x</td>
<td>u=rw,g=rwx,o=r</td>
</tr>
<tr>
<td>u=rw,g=rwx,o=w</td>
<td>u=rw,g=rwx,o=r</td>
<td>u=rw,g=rwx,o=rw</td>
</tr>
<tr>
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Open Source Used In Network Assurance Engine Release 3.0(1)
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for(int i = 0; i < symbolic.length; i += 2) {
    conf.set(FsPermission.UMASK_LABEL, symbolic[i][0]);
    short val = Short.valueOf(symbolic[i][1], 8);
    assertEquals(val, FsPermission.getUMask(conf).toShort());
}

public void testBadUmasks() {
    Configuration conf = new Configuration();

    for(String b : new String [] {"1777", "22", "99", "foo", ""}) {
        conf.set(FsPermission.UMASK_LABEL, b);
        try {
            FsPermission.getUMask(conf);
            fail("Shouldn't have been able to parse bad umask");
        } catch(IllegalArgumentException iae) {
            assertTrue("Exception should specify parsing error and invalid umask: 
                        + iae.getMessage(), isCorrectExceptionMessage(iae.getMessage(), b));
        }
    }
}

private boolean isCorrectExceptionMessage(String msg, String umask) {
    return msg.contains("Unable to parse") &&
           msg.contains(umask) &&
           msg.contains("octal or symbolic");
}

// Ensure that when the deprecated decimal umask key is used, it is correctly
// parsed as such and converted correctly to an FsPermission value
public void testDeprecatedUmask() {
    Configuration conf = new Configuration();

    conf.set(FsPermission.DEPRECATED_UMASK_LABEL, "302"); // 302 = 0456
    FsPermission umask = FsPermission.getUMask(conf);
assertEquals(0456, umask.toShort());
}
}
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 */

package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;

import org.apache.hadoop.hadoop.fs.permission;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * File system actions, e.g. read, write, etc.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public enum FsAction {
    // POSIX style
    NONE("---"),
    EXECUTE("-x"),
    WRITE("-w-"),
    WRITE_EXECUTE("-wx"),
    READ("r--"),
    READ_EXECUTE("r-x"),
    READ_WRITE("rw-"),
    ALL("rwx");

    /** Retain reference to value array. */
    private final static FsAction[] vals = values();

    /** Symbolic representation */
    public final String SYMBOL;

    private FsAction(String s) {
        SYMBOL = s;
    }

    /** Return true if this action implies that action. */
    @param that
    public boolean implies(FsAction that) {
        if (that != null) {
            return (ordinal() & that.ordinal()) == that.ordinal();
        }
        return false;
    }

    /** AND operation. */
    public FsAction and(FsAction that) {
        return vals[ordinal() & that.ordinal()];
    }

    /** OR operation. */
    public FsAction or(FsAction that) {
        return vals[ordinal() | that.ordinal()];
    }

    /** NOT operation. */
}
public FsAction not() {
    return vals[7 - ordinal()];
}

/**
  * Get the FsAction enum for String representation of permissions
  *
  * @param permission
  *          3-character string representation of permission. ex: rwx
  * @return Returns FsAction enum if the corresponding FsAction exists for permission.
  *         Otherwise returns null
  */
public static FsAction getFsAction(String permission) {
    for (FsAction fsAction : vals) {
        if (fsAction.SYMBOL.equals(permission)) {
            return fsAction;
        }
    }
    return null;
}

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  */
package org.apache.hadoop.fs.permission;

import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import com.google.common.base.Objects;
import com.google.common.base.Preconditions;
import com.google.common.collect.Lists;
/**
 * An AclStatus contains the ACL information of a specific file. AclStatus
 * instances are immutable. Use a { @link Builder } to create a new instance.
 */
@InterfaceAudience.Public
@InterfaceStability.Evolving
public class AclStatus {
    private final String owner;
    private final String group;
    private final boolean stickyBit;
    private final List<AclEntry> entries;
    private final FsPermission permission;

    /**
     * Returns the file owner.
     *
     * @return String file owner
     */
    public String getOwner() {
        return owner;
    }

    /**
     * Returns the file group.
     *
     * @return String file group
     */
    public String getGroup() {
        return group;
    }

    /**
     * Returns the sticky bit.
     *
     * @return boolean sticky bit
     */
    public boolean isStickyBit() {
        return stickyBit;
    }

    /**
     * Returns the list of all ACL entries, ordered by their natural ordering.
     *
     * @return List<AclEntry> unmodifiable ordered list of all ACL entries
     */
    public List<AclEntry> getEntries() {
        return entries;
    }
}
public FsPermission getPermission() {
    return permission;
}

@Override
public boolean equals(Object o) {
    if (o == null) {
        return false;
    }
    if (getClass() != o.getClass()) {
        return false;
    }
    AclStatus other = (AclStatus)o;
    return Objects.equal(owner, other.owner)
        && Objects.equal(group, other.group)
        && stickyBit == other.stickyBit
        && Objects.equal(entries, other.entries);
}

@Override
public int hashCode() {
    return Objects.hashCode(owner, group, stickyBit, entries);
}

@Override
public String toString() {
    return new StringBuilder()
        .append("owner: ").append(owner)
        .append(", group: ").append(group)
        .append(", acl: ")
        .append("entries: ").append(entries)
        .append("stickyBit: ").append(stickyBit)
        .append(')
        .toString();
}

/**
 * Builder for creating new Acl instances.
 */
public static class Builder {
    private String owner;
    private String group;

private boolean stickyBit;
private List<AclEntry> entries = Lists.newArrayList();
private FsPermission permission = null;

/**
 * Sets the file owner.
 *
 * @param owner String file owner
 * @return Builder this builder, for call chaining
 */
public Builder owner(String owner) {
    this.owner = owner;
    return this;
}

/**
 * Sets the file group.
 *
 * @param group String file group
 * @return Builder this builder, for call chaining
 */
public Builder group(String group) {
    this.group = group;
    return this;
}

/**
 * Adds an ACL entry.
 *
 * @param e AclEntry entry to add
 * @return Builder this builder, for call chaining
 */
public Builder addEntry(AclEntry e) {
    this.entries.add(e);
    return this;
}

/**
 * Adds a list of ACL entries.
 *
 * @param entries AclEntry entries to add
 * @return Builder this builder, for call chaining
 */
public Builder addEntries(Iterable<AclEntry> entries) {
    for (AclEntry e : entries)
        this.entries.add(e);
    return this;
}
/**
 * Sets sticky bit. If this method is not called, then the builder assumes
 * false.
 * @param stickyBit
 *          boolean sticky bit
 * @return Builder this builder, for call chaining
 */
public Builder stickyBit(boolean stickyBit) {
    this.stickyBit = stickyBit;
    return this;
}

/**
 * Sets the permission for the file.
 * @param permission
 */
public Builder setPermission(FsPermission permission) {
    this.permission = permission;
    return this;
}

/**
 * Builds a new AclStatus populated with the set properties.
 * @return AclStatus new AclStatus
 */
public AclStatus build() {
    return new AclStatus(owner, group, stickyBit, entries, permission);
}

/**
 * Private constructor.
 * @param file Path file associated to this ACL
 * @param owner String file owner
 * @param group String file group
 * @param stickyBit the sticky bit
 * @param entries the ACL entries
 * @param permission permission of the path
 */
private AclStatus(String owner, String group, boolean stickyBit,
              Iterable<AclEntry> entries, FsPermission permission) {
    this.owner = owner;
    this.group = group;
    this.stickyBit = stickyBit;
this.entries = Lists.newArrayList(entries);
this.permission = permission;
}

/**
 * Get the effective permission for the AclEntry
 * @param entry AclEntry to get the effective action
 */
public FsAction getEffectivePermission(AclEntry entry) { return getEffectivePermission(entry, permission); }

/**
 * Get the effective permission for the AclEntry. <br>
 * Recommended to use this API ONLY if client communicates with the old <br>
 * NameNode, needs to pass the Permission for the path to get effective <br>
 * permission, else use {@link AclStatus#getEffectivePermission(AclEntry)}.<br>
 * @param entry AclEntry to get the effective action <br>
 * @param permArg Permission for the path. However if the client is NOT <br>
 * communicating with old namenode, then this argument will not have <br>
 * any preference.<br>
 * @return Returns the effective permission for the entry.<br>
 * @throws IllegalArgumentException If the client communicating with old <br>
 * namenode and permission is not passed as an argument.<br>
 */
public FsAction getEffectivePermission(AclEntry entry, FsPermission permArg) throws IllegalArgumentException {
  // At least one permission bits should be available.
  Preconditions.checkNotNull(this.permission != null || permArg != null, "Permission bits are not available to calculate effective permission");
  if (this.permission != null) {
    permArg = this.permission;
  }
  if ((entry.getName() != null || entry.getType() == AclEntryType.GROUP)) {
    if (entry.getScope() == AclEntryScope.ACCESS) {
      FsAction entryPerm = entry.getPermission();
      return entryPerm.and(permArg.getGroupAction());
    } else {
      Preconditions.checkNotNull(this.entries.contains(entry) && this.entries.size() >= 3,
      "Passed default ACL entry not found in the list of ACLs");
      // default mask entry for effective permission calculation will be the
      // penultimate entry. This can be mask entry in case of extended ACLs.
      // In case of minimal ACL, this is the owner group entry, and we end up
      // intersecting group FsAction with itself, which is a no-op.
      FsAction defaultMask = this.entries.get(this.entries.size() - 2)
 FsAction entryPerm = entry.getPermission();
    return entryPerm.and(defaultMask);
  }
  }
}
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 */
package org.apache.hadoop.fs.permission;

import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import com.google.common.collect.Lists;

/**
 * AclUtil contains utility methods for manipulating ACLs.
 */
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public final class AclUtil {

/**
 * Given permissions and extended ACL entries, returns the full logical ACL.
 *
 * @param perm FsPermission containing permissions
 * @param entries List<AclEntry> containing extended ACL entries
 */

* @return List<AclEntry> containing full logical ACL
*/

public static List<AclEntry> getAclFromPermAndEntries(FsPermission perm,
        List<AclEntry> entries) {
    List<AclEntry> acl = Lists.newArrayListWithCapacity(entries.size() + 3);

    // Owner entry implied by owner permission bits.
    acl.add(new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.USER)
            .setPermission(perm.getUserAction())
            .build());

    // All extended access ACL entries.
    boolean hasAccessAcl = false;
    Iterator<AclEntry> entryIter = entries.iterator();
    AclEntry curEntry = null;
    while (entryIter.hasNext()) {
        curEntry = entryIter.next();
        if (curEntry.getScope() == AclEntryScope.DEFAULT) {
            break;
        }
        hasAccessAcl = true;
        acl.add(curEntry);
    }

    // Mask entry implied by group permission bits, or group entry if there is
    // no access ACL (only default ACL).
    acl.add(new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(hasAccessAcl ? AclEntryType.MASK : AclEntryType.GROUP)
            .setPermission(perm.getGroupAction())
            .build());

    // Other entry implied by other bits.
    acl.add(new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.OTHER)
            .setPermission(perm.getOtherAction())
            .build());

    // Default ACL entries.
    if (curEntry != null && curEntry.getScope() == AclEntryScope.DEFAULT) {
        acl.add(curEntry);
        while (entryIter.hasNext()) {
            acl.add(entryIter.next());
        }
    }
return acl;
}

/**
 * Translates the given permission bits to the equivalent minimal ACL.
 *
 * @param perm FsPermission to translate
 * @return List<AclEntry> containing exactly 3 entries representing the owner,
 * group and other permissions
 */
public static List<AclEntry> getMinimalAcl(FsPermission perm) {
    return Lists.newArrayList(
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.USER)
            .setPermission(perm.getUserAction())
            .build(),
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.GROUP)
            .setPermission(perm.getGroupAction())
            .build(),
        new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.OTHER)
            .setPermission(perm.getOtherAction())
            .build());
}

/**
 * Checks if the given entries represent a minimal ACL (contains exactly 3
 * entries).
 *
 * @param entries List<AclEntry> entries to check
 * @return boolean true if the entries represent a minimal ACL
 */
public static boolean isMinimalAcl(List<AclEntry> entries) {
    return entries.size() == 3;
}

/**
 * There is no reason to instantiate this class.
 */
private AclUtil() {
}
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*/
package org.apache.hadoop.fs.permission;
import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.FileStatus;
/**
* Parse a permission mode passed in from a chmod command and apply that
* mode against an existing file.
*/
@InterfaceAudience.Private
@InterfaceStability.Unstable
public class ChmodParser extends PermissionParser {
private static Pattern chmodOctalPattern =
Pattern.compile("^\\s*[+]?([01]?)([0-7]{3})\\s*$");
private static Pattern chmodNormalPattern =
Pattern.compile("\\G\\s*([ugoa]*)([+=-]+)([rwxXt]+)([,\\s]*)\\s*");
public ChmodParser(String modeStr) throws IllegalArgumentException {
super(modeStr, chmodNormalPattern, chmodOctalPattern);
}
/**
* Apply permission against specified file and determine what the
* new mode would be
* @param file File against which to apply mode
* @return File's new mode if applied.
*/
public short applyNewPermission(FileStatus file) {

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1708


FsPermission perms = file.getPermission();
int existing = perms.toShort();
boolean exeOk = file.isDirectory() || (existing & 0111) != 0;
return (short)combineModes(existing, exeOk);
}
}
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*/
package org.apache.hadoop.fs.permission;
import java.util.Collections;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.permission.AclEntry;
import org.apache.hadoop.fs.permission.AclEntryScope;
/**
* Groups a list of ACL entries into separate lists for access entries vs.
* default entries.
*/
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public final class ScopedAclEntries {
private static final int PIVOT_NOT_FOUND = -1;
private final List<AclEntry> accessEntries;
private final List<AclEntry> defaultEntries;
/**
* Creates a new ScopedAclEntries from the given list. It is assumed that the

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1709


* list is already sorted such that all access entries precede all default entries.

* @param aclEntries List<AclEntry> to separate

*/
public ScopedAclEntries(List<AclEntry> aclEntries) {
    int pivot = calculatePivotOnDefaultEntries(aclEntries);
    if (pivot != PIVOT_NOT_FOUND) {
        accessEntries = pivot != 0 ? aclEntries.subList(0, pivot) :
            Collections.<AclEntry>emptyList();
        defaultEntries = aclEntries.subList(pivot, aclEntries.size());
    } else {
        accessEntries = aclEntries;
        defaultEntries = Collections.emptyList();
    }
}

/**
 * Returns access entries.
 *
 * @return List<AclEntry> containing just access entries, or an empty list if there are no access entries
 */
public List<AclEntry> getAccessEntries() {
    return accessEntries;
}

/**
 * Returns default entries.
 *
 * @return List<AclEntry> containing just default entries, or an empty list if there are no default entries
 */
public List<AclEntry> getDefaultEntries() {
    return defaultEntries;
}

/**
 * Returns the pivot point in the list between the access entries and the default entries. This is the index of the
 * first element in the list that is a default entry.
 *
 * @param aclBuilder ArrayList<AclEntry> containing entries to build
 * @return int pivot point, or -1 if list contains no default entries
 */
private static int calculatePivotOnDefaultEntries(List<AclEntry> aclBuilder) {
    for (int i = 0; i < aclBuilder.size(); ++i) {
        if (aclBuilder.get(i).getScope() == AclEntryScope.DEFAULT) {
            return i;
        }
    }
    return -1;
}
return i;
}
}
return PIVOT_NOT_FOUND;
}

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 */

package org.apache.hadoop.fs.permission;

import java.util.ArrayList;
import java.util.Collection;
import java.util.List;
import com.google.common.base.Objects;
import org.apache.hadoop.HadoopIllegalArgumentException;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.util.StringUtils;

/**
 * Defines a single entry in an ACL. An ACL entry has a type (user, group,
 * mask, or other), an optional name (referring to a specific user or group), a
 * set of permissions (any combination of read, write and execute), and a scope
 * (access or default). AclEntry instances are immutable. Use a [link Builder]
 * to create a new instance.
 *
 * @InterfaceAudience.Public
 * @InterfaceStability.Evolving
 */
public class AclEntry {
private final AclEntryType type;
private final String name;

import java.util.ArrayList;
import java.util.Collection;
import java.util.List;
import com.google.common.base.Objects;
import org.apache.hadoop.HadoopIllegalArgumentException;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.util.StringUtils;

/**
 * Defines a single entry in an ACL. An ACL entry has a type (user, group,
 * mask, or other), an optional name (referring to a specific user or group), a
 * set of permissions (any combination of read, write and execute), and a scope
 * (access or default). AclEntry instances are immutable. Use a [link Builder]
 * to create a new instance.
 *
 * @InterfaceAudience.Public
 * @InterfaceStability.Evolving
 */
public class AclEntry {
private final AclEntryType type;
private final String name;
private final FsAction permission;
private final AclEntryScope scope;

/**
 * Returns the ACL entry type.
 *
 * @return AclEntryType ACL entry type
 */
public AclEntryType getType() {
    return type;
}

/**
 * Returns the optional ACL entry name.
 *
 * @return String ACL entry name, or null if undefined
 */
public String getName() {
    return name;
}

/**
 * Returns the set of permissions in the ACL entry.
 *
 * @return FsAction set of permissions in the ACL entry
 */
public FsAction getPermission() {
    return permission;
}

/**
 * Returns the scope of the ACL entry.
 *
 * @return AclEntryScope scope of the ACL entry
 */
public AclEntryScope getScope() {
    return scope;
}

@Override
public boolean equals(Object o) {
    if (o == null) {
        return false;
    }
    if (getClass() != o.getClass()) {
        return false;
    }
    AclEntry other = (AclEntry)o;

return Objects.equal(type, other.type) &&
   Objects.equal(name, other.name) &&
   Objects.equal(permission, other.permission) &&
   Objects.equal(scope, other.scope);
}

@Override
public int hashCode() {
   return Objects.hashCode(type, name, permission, scope);
}

@Override
public String toString() {
   StringBuilder sb = new StringBuilder();
   if (scope == AclEntryScope.DEFAULT) {
      sb.append("default:");
   }
   if (type != null) {
      sb.append(StringUtils.toLowerCase(type.toString()));
   }
   sb.append(':');
   if (name != null) {
      sb.append(name);
   }
   sb.append(':');
   if (permission != null) {
      sb.append(permission.SYMBOL);
   }
   return sb.toString();
}

/**
 * Builder for creating new AclEntry instances.
 */
public static class Builder {
   private AclEntryType type;
   private String name;
   private FsAction permission;
   private AclEntryScope scope = AclEntryScope.ACCESS;

   /**
    * Sets the ACL entry type.
    *
    * @param type AclEntryType ACL entry type
    * @return Builder this builder, for call chaining
    */
   public Builder setType(AclEntryType type) {
      this.type = type;
   }
return this;
}

/**
* Sets the optional ACL entry name.
* @param name String optional ACL entry name
* @return Builder this builder, for call chaining
*/
public Builder setName(String name) {
    if (name != null && !name.isEmpty()) {
        this.name = name;
    }
    return this;
}

/**
* Sets the set of permissions in the ACL entry.
* @param permission FsAction set of permissions in the ACL entry
* @return Builder this builder, for call chaining
*/
public Builder setPermission(FsAction permission) {
    this.permission = permission;
    return this;
}

/**
* Sets the scope of the ACL entry. If this method is not called, then the
* builder assumes [@link AclEntryScope#ACCESS].
* @param scope AclEntryScope scope of the ACL entry
* @return Builder this builder, for call chaining
*/
public Builder setScope(AclEntryScope scope) {
    this.scope = scope;
    return this;
}

/**
* Builds a new AclEntry populated with the set properties.
* @return AclEntry new AclEntry
*/
public AclEntry build() {
    return new AclEntry(type, name, permission, scope);
}
/**
 * Private constructor.
 * @param type AclEntryType ACL entry type
 * @param name String optional ACL entry name
 * @param permission FsAction set of permissions in the ACL entry
 * @param scope AclEntryScope scope of the ACL entry
 */
private AclEntry(AclEntryType type, String name, FsAction permission, AclEntryScope scope) {
    this.type = type;
    this.name = name;
    this.permission = permission;
    this.scope = scope;
}

/**
 * Parses a string representation of an ACL spec into a list of AclEntry objects. Example: "user::rwx,user:foo:rw-,group::r--,other::---"
 * @param aclSpec String representation of an ACL spec.
 * @param includePermission for setAcl operations this will be true. i.e. AclSpec should include permissions.<br>
 *   But for removeAcl operation it will be false. i.e. AclSpec should not contain permissions.<br>
 *   Example: "user:foo,group:bar"
 * @return Returns list of [ @link AclEntry ] parsed
 */
public static List<AclEntry> parseAclSpec(String aclSpec, boolean includePermission) {
    List<AclEntry> aclEntries = new ArrayList<AclEntry>();
    Collection<String> aclStrings = StringUtils.getStringCollection(aclSpec,);
    for (String aclStr : aclStrings) {
        AclEntry aclEntry = parseAclEntry(aclStr, includePermission);
        aclEntries.add(aclEntry);
    }
    return aclEntries;
}

/**
 * Parses a string representation of an ACL into a AclEntry object.<br>
 * @param aclStr String representation of an ACL.<br>
 *   Example: "user:foo:rw-"
 */

* @param includePermission
* for setAcl operations this will be true. i.e. Acl should include
* permissions.<br>
* But for removeAcl operation it will be false. i.e. Acl should not
* contain permissions.<br>
* Example: "user:foo,group:bar,mask::"
* @return Returns an {@link AclEntry} object
*/

public static AclEntry parseAclEntry(String aclStr,
    boolean includePermission) {
    AclEntry.Builder builder = new AclEntry.Builder();
    // Here "::" represent one empty string.
    // StringUtils.getStringCollection() will ignore this.
    String[] split = aclStr.split(";");

    if (split.length == 0) {
        throw new HadoopIllegalArgumentException("Invalid <aclSpec> : " + aclStr);
    }
    int index = 0;
    if ("default".equals(split[0])) {
        // default entry
        index++;
        builder.setScope(AclEntryScope.DEFAULT);
    }

    if (split.length <= index) {
        throw new HadoopIllegalArgumentException("Invalid <aclSpec> : " + aclStr);
    }

    AclEntryType aclType = null;
    try {
        aclType = Enum.valueOf(AclEntryType.class, StringUtils.toUpperCase(split[index]));
        builder.setType(aclType);
        index++;
    } catch (IllegalArgumentException iae) {
        throw new HadoopIllegalArgumentException("Invalid type of acl in <aclSpec> : " + aclStr);
    }

    if (split.length > index) {
        String name = split[index];
        if (!name.isEmpty()) {
            builder.setName(name);
        }
        index++;
    }
}
if (includePermission) {
    if (split.length <= index) {
        throw new HadoopIllegalArgumentException("Invalid <aclSpec> : "+ aclStr);
    }
    String permission = split[index];
    FsAction fsAction = FsAction.getFsAction(permission);
    if (null == fsAction) {
        throw new HadoopIllegalArgumentException("Invalid permission in <aclSpec> : "+ aclStr);
    }
    builder.setPermission(fsAction);
    index++;
}

if (split.length > index) {
    throw new HadoopIllegalArgumentException("Invalid <aclSpec> : "+ aclStr);
}
AclEntry aclEntry = builder.build();
return aclEntry;

/**
 * Convert a List of AclEntries into a string - the reverse of parseAclSpec.
 * @param aclSpec List of AclEntries to convert
 * @return String representation of aclSpec
 */
public static String aclSpecToString(List<AclEntry> aclSpec) {
    StringBuilder buf = new StringBuilder();
    for (AclEntry e : aclSpec) {
        buf.append(e.toString());
        buf.append(",");
    }
    return buf.substring(0, buf.length()-1); // remove last ,
}

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import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

public UmaskParser(String modeStr) throws IllegalArgumentException {
    super(modeStr, umaskSymbolicPattern, chmodOctalPattern);
    umaskMode = (short) combineModes(0, false);
}

/**
 * To be used for file/directory creation only. Symbolic umask is applied
 * relative to file mode creation mask; the permission op characters ' +'
 * results in clearing the corresponding bit in the mask. '-' results in bits
 * for indicated permission to be set in the mask.
 * *
 * For octal umask, the specified bits are set in the file mode creation mask.
 * *
 * @return umask
 */

public short getUMask() {
    if (symbolic) {
        // Return the complement of octal equivalent of umask that was computed
        return (short) (~umaskMode & 0777);
    }
    return umaskMode;
}
return umaskMode;
}

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 */

package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * Specifies the type of an ACL entry.
 */
@InterfaceAudience.Public
@InterfaceStability.Evolving
public enum AclEntryType {

/**
 * An ACL entry applied to a specific user. These ACL entries can be unnamed,
 * which applies to the file owner, or named, which applies to the specific
 * named user.
 */
USER,

/**
 * An ACL entry applied to a specific group. These ACL entries can be
 * unnamed, which applies to the file's group, or named, which applies to the
 * specific named group.
 */
GROUP,

/**
 * An ACL mask entry. Mask entries are unnamed. During permission checks,
* the mask entry interacts with all ACL entries that are members of the group
* class. This consists of all named user entries, the unnamed group entry,
* and all named group entries. For each such entry, any permissions that are
* absent from the mask entry are removed from the effective permissions used
* during the permission check.
*/

MASK,

/**
 * An ACL entry that applies to all other users that were not covered by one
 * of the more specific ACL entry types.
 */
OTHER;
}
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*/

package org.apache.hadoop.fs.permission;

import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CommonConfigurationKeys;
import org.apache.hadoop.io.Writable;
import org.apache.hadoop.io.WritableFactory;

/**
A class for file/directory permissions.
 *
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public class FsPermission implements Writable {
private static final Log LOG = LogFactory.getLog(FsPermission.class);

static final WritableFactory FACTORY = new WritableFactory() {
    @Override
    public Writable newInstance() { return new FsPermission(); }
};
static { // register a ctor
    WritableFactories.setFactory(FsPermission.class, FACTORY);
    WritableFactories.setFactory(ImmutableFsPermission.class, FACTORY);
}

/** Maximum acceptable length of a permission string to parse */
public static final int MAX_PERMISSION_LENGTH = 10;

/** Create an immutable {@link FsPermission} object. */
public static FsPermission createImmutable(short permission) {
    return new ImmutableFsPermission(permission);
}

//POSIX permission style
private FsAction useraction = null;
private FsAction groupaction = null;
private FsAction otheraction = null;
private boolean stickyBit = false;

private FsPermission() {}

/**
 * Construct by the given {@link FsAction}.
 * @param u user action
 * @param g group action
 * @param o other action
 */
public FsPermission(FsAction u, FsAction g, FsAction o) {
    this(u, g, o, false);
}

public FsPermission(FsAction u, FsAction g, FsAction o, boolean sb) {
    set(u, g, o, sb);
}

/**
 * Construct by the given mode.
 */
public FsPermission(short mode) { fromShort(mode); }

/**
 * Copy constructor
 *
 * @param other other permission
 */
public FsPermission(FsPermission other) {
    this.useraction = other.useraction;
    this.groupaction = other.groupaction;
    this.otheraction = other.otheraction;
    this.stickyBit = other.stickyBit;
}

/**
 * Construct by given mode, either in octal or symbolic format.
 * @param mode mode as a string, either in octal or symbolic format
 * @throws IllegalArgumentException if <code>mode</code> is invalid
 */
public FsPermission(String mode) {
    this(new UmaskParser(mode).getUMask());
}

/** Return user {@link FsAction}. */
public FsAction getUserAction() {return useraction;}

/** Return group {@link FsAction}. */
public FsAction getGroupAction() {return groupaction;}

/** Return other {@link FsAction}. */
public FsAction getOtherAction() {return otheraction;}

private void set(FsAction u, FsAction g, FsAction o, boolean sb) {
    useraction = u;
    groupaction = g;
    otheraction = o;
    stickyBit = sb;
}

public void fromShort(short n) {
    FsAction[] v = FSACTION_VALUES;
    set(v[(n >>> 6) & 7], v[(n >>> 3) & 7], v[n & 7], (((n >>> 9) & 1) == 1) );
}

@Override
public void write(DataOutput out) throws IOException {
    out.writeShort(toShort());
}

@Override
public void readFields(DataInput in) throws IOException {
    fromShort(in.readShort());
}

/**
 * Create and initialize a {@link FsPermission} from {@link DataInput}.
 */
public static FsPermission read(DataInput in) throws IOException {
    FsPermission p = new FsPermission();
    p.readFields(in);
    return p;
}

/**
 * Encode the object to a short.
 */
public short toShort() {
    int s = (stickyBit ? 1 << 9 : 0)     |
        (useraction.ordinal() << 6)  |
        (groupaction.ordinal() << 3) |
        otheraction.ordinal();

    return (short)s;
}

/**
 * Encodes the object to a short. Unlike {@link #toShort()}, this method may
 * return values outside the fixed range 00000 - 01777 if extended features
 * are encoded into this permission, such as the ACL bit.
 *
 * @return short extended short representation of this permission
 */
public short toExtendedShort() {
    return toShort();
}

@Override
public boolean equals(Object obj) {
    if (obj instanceof FsPermission) {
        FsPermission that = (FsPermission)obj;
        return this.useraction == that.useraction
            && this.groupaction == that.groupaction
            && this.otheraction == that.otheraction
    }
&& this.stickyBit == that.stickyBit;
}
return false;
}

@Override
public int hashCode() {return toShort();}

@Override
public String toString() {
String str = useraction.SYMBOL + groupaction.SYMBOL + otheraction.SYMBOL;
if(stickyBit) {
    StringBuilder str2 = new StringBuilder(str);
    str2.replace(str2.length() - 1, str2.length(),
        otheraction.implies(FsAction.EXECUTE) ? "t" : "T");
    str = str2.toString();
}
return str;
}

/**
 * Apply a umask to this permission and return a new one.
 * 
 * The umask is used by create, mkdir, and other Hadoop filesystem operations.
 * The mode argument for these operations is modified by removing the bits
 * which are set in the umask. Thus, the umask limits the permissions which
 * newly created files and directories get.
 * 
 * @param umask The umask to use
 * 
 * @return The effective permission
 */
public FsPermission applyUMask(FsPermission umask) {
    return new FsPermission(useraction.and(umask.useraction.not()),
        groupaction.and(umask.groupaction.not()),
        otheraction.and(umask.otheraction.not()));
}

/** umask property label deprecated key and code in getUMask method
 * to accommodate it may be removed in version .23 */
public static final String DEPRECATED_UMASK_LABEL = "dfs.umask";
public static final String UMASK_LABEL =
    CommonConfigurationKeys.FS_PERMISSIONS_UMASK_KEY;
public static final int DEFAULT_UMASK =
    CommonConfigurationKeys.FS_PERMISSIONS_UMASK_DEFAULT;

private static final FsAction[] FSACTION_VALUES = FsAction.values();
/**
 * Get the user file creation mask (umask)
 *
 * { @code UMASK_LABEL} config param has umask value that is either symbolic
 * or octal.
 *
 * Symbolic umask is applied relative to file mode creation mask;
 * the permission op characters '+' clears the corresponding bit in the mask,
 * '-' sets bits in the mask.
 *
 * Octal umask, the specified bits are set in the file mode creation mask.
 *
 * { @code DEPRECATED_UMASK_LABEL} config param has umask value set to decimal.
 */

public static FsPermission getUMask(Configuration conf) {
    int umask = DEFAULT_UMASK;

    // To ensure backward compatibility first use the deprecated key.
    // If the deprecated key is not present then check for the new key
    if(conf != null) {
        String confUmask = conf.get(UMASK_LABEL);
        int oldUmask = conf.getInt(DEPRECATED_UMASK_LABEL, Integer.MIN_VALUE);
        try {
            if(confUmask != null) {
                umask = new UmaskParser(confUmask).getUMask();
            }
        } catch(IllegalArgumentException iae) {
            // Provide more explanation for user-facing message
            String type = iae instanceof NumberFormatException ? "decimal" :
                "octal or symbolic";
            String error = "Unable to parse configuration " + UMASK_LABEL
                + " with value " + confUmask + " as " + type + " umask."
                + ";
            LOG.warn(error);
        }
    }

    if(oldUmask != Integer.MIN_VALUE) // Property was set with old key
        if (umask != oldUmask) {
            LOG.warn(DEPRECATED_UMASK_LABEL
                + " configuration key is deprecated. " + "Convert to "
                + UMASK_LABEL + ", using octal or symbolic umask"
                + " specifications.");
            // Old and new umask values do not match - Use old umask
    }
}

// If oldUmask is not set, then throw the exception
if (oldUmask == Integer.MIN_VALUE) {
    throw new IllegalArgumentException(error);
}
umask = oldUmask;
}
}
}

return new FsPermission((short)umask);
}

public boolean getStickyBit() {
    return stickyBit;
}

/**
 * Returns true if there is also an ACL (access control list).
 * @return boolean true if there is also an ACL (access control list).
 */
public boolean getAclBit() {
    // File system subclasses that support the ACL bit would override this.
    return false;
}

/**
 * Returns true if the file is encrypted or directory is in an encryption zone
 */
public boolean getEncryptedBit() {
    return false;
}

/** Set the user file creation mask (umask) */
public static void setUMask(Configuration conf, FsPermission umask) {
    conf.set(UMASK_LABEL, String.format("%1$03o", umask.toShort()));
    conf.setInt(DEPRECATED_UMASK_LABEL, umask.toShort());
}

/**
 * Get the default permission for directory and symlink.
 * In previous versions, this default permission was also used to
 * create files, so files created end up with ugo+x permission.
 * See HADOOP-9155 for detail.
 * Two new methods are added to solve this, please use
 * @link FsPermission#getDirDefault() for directory, and use
 * @link FsPermission#getFileDefault() for file.
 * This method is kept for compatibility.
 */
public static FsPermission getDefault() {
    return new FsPermission((short)00777);
}
/**
 * Get the default permission for directory.
 */
public static FsPermission getDirDefault() {
    return new FsPermission((short)00777);
}

/**
 * Get the default permission for file.
 */
public static FsPermission getFileDefault() {
    return new FsPermission((short)00666);
}

/**
 * Get the default permission for cache pools.
 */
public static FsPermission getCachePoolDefault() {
    return new FsPermission((short)00755);
}

/**
 * Create a FsPermission from a Unix symbolic permission string
 * @param unixSymbolicPermission e.g. "-rw-rw-rw-"
 */
public static FsPermission valueOf(String unixSymbolicPermission) {
    if (unixSymbolicPermission == null) {
        return null;
    } else if (unixSymbolicPermission.length() != MAX_PERMISSION_LENGTH) {
        throw new IllegalArgumentException(String.format(
            "length != %d(unixSymbolicPermission=%s)",
            MAX_PERMISSION_LENGTH, unixSymbolicPermission));
    }

    int n = 0;
    for(int i = 1; i < unixSymbolicPermission.length(); i++) {
        n = n << 1;
        char c = unixSymbolicPermission.charAt(i);
        n += (c == '-' || c == 'T' || c == 'S') ? 0: 1;
    }

    // Add sticky bit value if set
    if(unixSymbolicPermission.charAt(9) == 't' ||
        unixSymbolicPermission.charAt(9) == 'T')
        n += 01000;

    return new FsPermission((short)n);
}
return new FsPermission((short)n);
}
private static class ImmutableFsPermission extends FsPermission {
public ImmutableFsPermission(short permission) {
super(permission);
}
@Override
public void readFields(DataInput in) throws IOException {
throw new UnsupportedOperationException();
}
}
}
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*/
package org.apache.hadoop.fs.permission;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.io.*;
import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;
/**
* Store permission related information.
*/
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public class PermissionStatus implements Writable {
static final WritableFactory FACTORY = new WritableFactory() {

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1728


```java
@Override
class PermissionStatus {
    @Override
    public Writable newInstance() { return new PermissionStatus(); }

    WritableFactories.setFactory(PermissionStatus.class, FACTORY);

    /** Create an immutable {@link PermissionStatus} object. */
    public static PermissionStatus createImmutable(
            String user, String group, FsPermission permission) {
        return new PermissionStatus(user, group, permission) {
            @Override
            public PermissionStatus applyUMask(FsPermission umask) {
                throw new UnsupportedOperationException();
            }
            @Override
            public void readFields(DataInput in) throws IOException {
                throw new UnsupportedOperationException();
            }
        };
    }

    private String username;
    private String groupname;
    private FsPermission permission;

    private PermissionStatus() {}

    /** Constructor */
    public PermissionStatus(String user, String group, FsPermission permission) {
        username = user;
        groupname = group;
        this.permission = permission;
    }

    /** Return user name */
    public String getUserName() {return username;}

    /** Return group name */
    public String getGroupName() {return groupname;}

    /** Return permission */
    public FsPermission getPermission() {return permission;

    /**
     * Apply umask.
     * @see FsPermission#applyUMask(FsPermission)
     */
```
public PermissionStatus applyUMask(FsPermission umask) {
    permission = permission.applyUMask(umask);
    return this;
}

@Override
public void readFields(DataInput in) throws IOException {
    username = Text.readString(in, Text.DEFAULT_MAX_LEN);
    groupname = Text.readString(in, Text.DEFAULT_MAX_LEN);
    permission = FsPermission.read(in);
}

@Override
public void write(DataOutput out) throws IOException {
    write(out, username, groupname, permission);
}

/**
 * Create and initialize a [PermissionStatus] from [DataInput].
 */
public static PermissionStatus read(DataInput in) throws IOException {
    PermissionStatus p = new PermissionStatus();
    p.readFields(in);
    return p;
}

/**
 * Serialize a [PermissionStatus] from its base components.
 */
public static void write(DataOutput out,
                        String username,
                        String groupname,
                        FsPermission permission) throws IOException {
    Text.writeString(out, username, Text.DEFAULT_MAX_LEN);
    Text.writeString(out, groupname, Text.DEFAULT_MAX_LEN);
    permission.write(out);
}

@Override
public String toString() {
    return username + ":" + groupname + ":" + permission;
}

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*/
package org.apache.hadoop.fs.permission;

import java.io.IOException;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * An exception class for access control related issues.
 * @deprecated Use @link org.apache.hadoop.security.AccessControlException
 * instead.
 */
@Deprecated
@InterfaceAudience.Public
@InterfaceStability.Stable
public class AccessControlException extends IOException {

    //Required by @link java.io.Serializable.
    private static final long serialVersionUID = 1L;

    /**
     * Default constructor is needed for unwrapping from
     * @link org.apache.hadoop.ipc.RemoteException.
     */
    public AccessControlException() {
        super("Permission denied.");
    }

    /**
     * Constructs an @link AccessControlException
     * with the specified detail message.
     * @param s the detail message.
     */
    public AccessControlException(String s) {
        super(s);
    }
}
/**
 * Constructs a new exception with the specified cause and a detail
 * message of <tt>(cause==null ? null : cause.toString())</tt> (which
 * typically contains the class and detail message of <tt>cause</tt>).
 * @param  cause the cause (which is saved for later retrieval by the
 *           [ @link #getCause() ] method).  (A <tt>null</tt> value is
 *           permitted, and indicates that the cause is nonexistent or
 *           unknown.)
 */
public AccessControlException(Throwable cause) {
    super(cause);
}

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 */
package org.apache.hadoop.fs.permission;

import java.util.regex.Matcher;
import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * Base class for parsing either chmod permissions or umask permissions.
 * Includes common code needed by either operation as implemented in
 * UmaskParser and ChmodParser classes.
 */
@InterfaceAudience.Private
@InterfaceStability.Unstable
class PermissionParser {
    protected boolean symbolic = false;
    protected short userMode;
protected short groupMode;
protected short othersMode;
protected short stickyMode;
protected char userType = '+';
protected char groupType = '+';
protected char othersType = '+';
protected char stickyBitType = '+';

/**
 * Begin parsing permission stored in modeStr
 *
 * @param modeStr Permission mode, either octal or symbolic
 * @param symbolic Use-case specific symbolic pattern to match against
 * @throws IllegalArgumentException if unable to parse modeStr
 */
public PermissionParser(String modeStr, Pattern symbolic, Pattern octal)
  throws IllegalArgumentException {
  Matcher matcher = null;

  if ((matcher = symbolic.matcher(modeStr)).find()) {
    applyNormalPattern(modeStr, matcher);
  } else if ((matcher = octal.matcher(modeStr)).matches()) {
    applyOctalPattern(modeStr, matcher);
  } else {
    throw new IllegalArgumentException(modeStr);
  }

  private void applyNormalPattern(String modeStr, Matcher matcher) {
    // Are there multiple permissions stored in one chmod?
    boolean commaSeperated = false;

    for (int i = 0; i < 1 || matcher.end() < modeStr.length(); i++) {
      if (i > 0 && (!commaSeperated || !matcher.find())) {
        throw new IllegalArgumentException(modeStr);
      }

      /*
      * groups : 1 : [ugoa]* 2 : [+-=] 3 : [rwxXt]+ 4 : [,\s]*/
      */

      String str = matcher.group(2);
      char type = str.charAt(str.length() - 1);

      boolean user, group, others, stickyBit;
      user = group = others = stickyBit = false;

      for (char c : matcher.group(1).toCharArray()) {
        switch (c) {
switch (c) {
    case 'u':
        user = true;
        break;
    case 'g':
        group = true;
        break;
    case 'o':
        others = true;
        break;
    case 'a':
        break;
    default:
        throw new RuntimeException("Unexpected");
        }
    }

if (!(user || group || others)) { // same as specifying 'a'
    user = group = others = true;
}

short mode = 0;

for (char c : matcher.group(3).toCharArray()) {
    switch (c) {
        case 'r':
            mode |= 4;
            break;
        case 'w':
            mode |= 2;
            break;
        case 'x':
            mode |= 1;
            break;
        case 'X':
            mode |= 8;
            break;
        case 't':
            stickyBit = true;
            break;
        default:
            throw new RuntimeException("Unexpected");
            }
    }

if (user) {
    userMode = mode;
    userType = type;
}
if (group) {
    groupMode = mode;
    groupType = type;
}

if (others) {
    othersMode = mode;
    othersType = type;
    stickyMode = (short) (stickyBit ? 1 : 0);
    stickyBitType = type;
}

commaSeperated = matcher.group(4).contains(",");
symbolic = true;

private void applyOctalPattern(String modeStr, Matcher matcher) {
    userType = groupType = othersType = '=';

    // Check if sticky bit is specified
    String sb = matcher.group(1);
    if (!sb.isEmpty()) {
        stickyMode = Short.valueOf(sb.substring(0, 1));
        stickyBitType = '=';
    }

    String str = matcher.group(2);
    userMode = Short.valueOf(str.substring(0, 1));
    groupMode = Short.valueOf(str.substring(1, 2));
    othersMode = Short.valueOf(str.substring(2, 3));
}

protected int combineModes(int existing, boolean exeOk) {
    return combineModeSegments(stickyBitType, stickyMode,
                                (existing>>>9), false) << 9 |
            combineModeSegments(userType, userMode,
                                 (existing>>>6)&7, exeOk) << 6 |
            combineModeSegments(groupType, groupMode,
                                 (existing>>>3)&7, exeOk) << 3 |
            combineModeSegments(othersType, othersMode, existing&7, exeOk);
}

protected int combineModeSegments(char type, int mode,
                                  int existing, boolean exeOk) {

boolean capX = false;

if ((mode&8) != 0) { // convert X to x;
    capX = true;
    mode &= ~8;
    mode |= 1;
}

switch (type) {
    case '+' : mode = mode | existing; break;
    case '-' : mode = (~mode) & existing; break;
    case '=' : break;
    default : throw new RuntimeException("Unexpected");
}

// if X is specified add 'x' only if exeOk or x was already set.
if (capX && !exeOk && (mode&1) != 0 && (existing&1) == 0) {
    mode &= ~1; // remove x
}

return mode;

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 */

package org.apache.hadoop.fs.permission;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * Specifies the scope or intended usage of an ACL entry.
 */
@InterfaceAudience.Public
@InterfaceStability.Evolving
public enum AclEntryScope {
    /**
     * An ACL entry that is inspected during permission checks to enforce
     * permissions.
     */
    ACCESS,
    /**
     * An ACL entry to be applied to a directory's children that do not otherwise
     * have their own ACL defined. Unlike an access ACL entry, a default ACL
     * entry is not inspected as part of permission enforcement on the directory
     * that owns it.
     */
    DEFAULT;
}
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 */
package org.apache.hadoop.fs.permission;

import static org.apache.hadoop.fs.permission.AclEntryScope.*;
import static org.apache.hadoop.fs.permission.AclEntryType.*;
import static org.apache.hadoop.fs.permission.FsAction.*;
import static org.apache.hadoop.hdfs.server.namenode.AclTestHelpers.*;
import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import static org.junit.Assert.fail;
import java.io.IOException;
import java.util.Arrays;

import java.io.IOException;
import java.util.Arrays;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FSDataOutputStream;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.hdfs.DFSConfigKeys;
import org.apache.hadoop.hdfs.DFSTestUtil;
import org.apache.hadoop.hdfs.DistributedFileSystem;
import org.apache.hadoop.hdfs.HdfsConfiguration;
import org.apache.hadoop.hdfs.MiniDFSCluster;
import org.apache.hadoop.io.IOUtils;
import org.apache.hadoop.security.AccessControlException;
import org.apache.hadoop.security.UserGroupInformation;
import org.junit.AfterClass;
import org.junit.Before;
import org.junit.BeforeClass;
import org.junit.Test;

public class TestStickyBit {

    static final UserGroupInformation user1 = 
        UserGroupInformation.createUserForTesting("theDoctor", new String[] {"tardis"});
    static final UserGroupInformation user2 = 
        UserGroupInformation.createUserForTesting("rose", new String[] {"powellestates"});

    private static MiniDFSCluster cluster;
    private static Configuration conf;
    private static FileSystem hdfs;
    private static FileSystem hdfsAsUser1;
    private static FileSystem hdfsAsUser2;

    @BeforeClass
    public static void init() throws Exception {
        conf = new HdfsConfiguration();
        conf.setBoolean(DFSConfigKeys.DFS_PERMISSIONS_ENABLED_KEY, true);
        conf.setBoolean(DFSConfigKeys.DFS_NAMENODE_ACLS_ENABLED_KEY, true);
        initCluster(true);
    }

    private static void initCluster(boolean format) throws Exception {
        cluster = new MiniDFSCluster.Builder(conf).numDataNodes(4).format(format)
            .build();
        hdfs = cluster.getFileSystem();
        assertTrue(hdfs instanceof DistributedFileSystem);
        hdfsAsUser1 = DFSTestUtil.getFileSystemAs(user1, conf);
        assertTrue(hdfsAsUser1 instanceof DistributedFileSystem);
        hdfsAsUser2 = DFSTestUtil.getFileSystemAs(user2, conf);
        assertTrue(hdfsAsUser2 instanceof DistributedFileSystem);
    }

    @Before
    private void init() throws Exception {
        conf = new HdfsConfiguration();
        conf.setBoolean(DFSConfigKeys.DFS_PERMISSIONS_ENABLED_KEY, true);
        conf.setBoolean(DFSConfigKeys.DFS_NAMENODE_ACLS_ENABLED_KEY, true);
        initCluster(false);
    }

    private static void initCluster(boolean format) throws Exception {
        cluster = new MiniDFSCluster.Builder(conf).numDataNodes(4).format(format)
            .build();
        hdfs = cluster.getFileSystem();
        assertTrue(hdfs instanceof DistributedFileSystem);
        hdfsAsUser1 = DFSTestUtil.getFileSystemAs(user1, conf);
        assertTrue(hdfsAsUser1 instanceof DistributedFileSystem);
        hdfsAsUser2 = DFSTestUtil.getFileSystemAs(user2, conf);
        assertTrue(hdfsAsUser2 instanceof DistributedFileSystem);
    }

    @Test
    public void testStickyBit() throws Exception {
        Path filePath = new Path("/some/path")
        FileSystem fileSystem = hdfs;
        fileSystem.setPermission(filePath, new FsPermission("777"));
        fileSystem.setPermission(filePath, new FsPermission("744"));
        fileSystem.setPermission(filePath, new FsPermission("700"));
    }
}
@Before
def setup() throws Exception:
    if (hdfs != null):
        for (FileStatus stat in hdfs.listStatus(new Path("/"))):
            hdfs.delete(stat.getPath(), true)

@AfterClass
def shutdown() throws Exception:
    IOUtils.cleanup(null, hdfs, hdfsAsUser1, hdfsAsUser2)
    if (cluster != null):
        cluster.shutdown()

/**
* Ensure that even if a file is in a directory with the sticky bit on,
* another user can write to that file (assuming correct permissions).
*/
def confirmCanAppend(Configuration conf, Path p) throws Exception:
    Path file = new Path(p, "foo")
    writeFile(hdfsAsUser1, file)
    hdfsAsUser1.setPermission(file, new FsPermission((short) 0777))

    Path file2 = new Path(p, "foo")
    writeFile(hdfsAsUser1, file)
    hdfsAsUser1.setPermission(file, new FsPermission((short) 0777))

    try:
        h.write("Some more data").getBytes()
        h.close()
        h = null
    finally:
        IOUtils.cleanup(null, h)

/**
* Test that one user can't delete another user's file when the sticky bit is
* set.
*/
def confirmDeletingFiles(Configuration conf, Path p) throws Exception:
// Write a file to the new temp directory as a regular user
Path file = new Path(p, "foo");
writeFile(hdfsAsUser1, file);

// Make sure the correct user is the owner
assertEquals(user1.getShortUserName(), hdfsAsUser1.getFileStatus(file).getOwner());

// Log onto cluster as another user and attempt to delete the file
try {
    hdfsAsUser2.delete(file, false);
    fail("Shouldn't be able to delete someone else's file with SB on");
} catch (IOException ioe) {
    assertTrue(ioe instanceof AccessControlException);
    assertTrue(ioe.getMessage().contains("sticky bit"));
}

/**
 * Test that if a directory is created in a directory that has the sticky bit
 * on, the new directory does not automatically get a sticky bit, as is
 * standard Unix behavior
 */
private void confirmStickyBitDoesntPropagate(FileSystem hdfs, Path p) throws IOException {
    // Create a subdirectory within it
    Path p2 = new Path(p, "bar");
    hdfs.mkdirs(p2);

    // Ensure new directory doesn't have its sticky bit on
    assertFalse(hdfs.getFileStatus(p2).getPermission().getStickyBit());
}

/**
 * Test basic ability to get and set sticky bits on files and directories.
 */
private void confirmSettingAndGetting(FileSystem hdfs, Path p, Path baseDir) throws IOException {
    // Initially sticky bit should not be set
    assertFalse(hdfs.getFileStatus(p).getPermission().getStickyBit());

    // Same permission, but with sticky bit on
    short withSB;
    withSB = (short) (hdfs.getFileStatus(p).getPermission().toShort() | 01000);

    assertTrue((new FsPermission(withSB)).getStickyBit());

    hdfs.setPermission(p, new FsPermission(withSB));
assertTrue(hdfs.getFileStatus(p).getPermission().getStickyBit());

// Write a file to the fs, try to set its sticky bit
Path f = new Path(baseDir, "somefile");
writeFile(hdfs, f);
assertFalse(hdfs.getFileStatus(f).getPermission().getStickyBit());

withSB = (short) (hdfs.getFileStatus(f).getPermission().toShort() | 01000);

hdfs.setPermission(f, new FsPermission(withSB));

assertTrue(hdfs.getFileStatus(f).getPermission().getStickyBit());
}

@Test
public void testGeneralSBBehavior() throws Exception {
Path baseDir = new Path("/mcgann");
hdfs.mkdirs(baseDir);

// Create a tmp directory with wide-open permissions and sticky bit
Path p = new Path(baseDir, "tmp");

hdfs.mkdirs(p);
hdfs.setPermission(p, new FsPermission((short) 01777));
confirmCanAppend(conf, p);

baseDir = new Path("/eccleston");
hdfs.mkdirs(baseDir);
p = new Path(baseDir, "rogue\ traders");

hdfs.mkdirs(p);
confirmSettingAndGetting(hdfs, p, baseDir);

baseDir = new Path("/tennant");
hdfs.mkdirs(baseDir);
p = new Path(baseDir, "contemporary");
hdfs.mkdirs(p);
hdfs.setPermission(p, new FsPermission((short) 01777));
confirmDeletingFiles(conf, p);

baseDir = new Path("/smith");
hdfs.mkdirs(baseDir);
p = new Path(baseDir, "scissorsisters");

// Turn on its sticky bit
hdfs.mkdirs(p, new FsPermission((short) 01666));
confirmStickyBitDoesntPropagate(hdfs, baseDir);
@Test
public void testAclGeneralSBBehavior() throws Exception {
    Path baseDir = new Path("/mcgann");
    hdfs.mkdirs(baseDir);

    // Create a tmp directory with wide-open permissions and sticky bit
    Path p = new Path(baseDir, "tmp");
    hdfs.mkdirs(p);
    hdfs.setPermission(p, new FsPermission((short) 01777));
    applyAcl(p);
    confirmCanAppend(conf, p);

    baseDir = new Path="/eccleston");
    hdfs.mkdirs(baseDir);
    p = new Path(baseDir, "rogueTraders");
    hdfs.mkdirs(p);
    applyAcl(p);
    confirmSettingAndGetting(hdfs, p, baseDir);

    baseDir = new Path("/tennant");
    hdfs.mkdirs(baseDir);
    p = new Path(baseDir, "contemporary");
    hdfs.mkdirs(p);
    hdfs.setPermission(p, new FsPermission((short) 01777));
    applyAcl(p);
    confirmDeletingFiles(conf, p);

    baseDir = new Path("/smith");
    hdfs.mkdirs(baseDir);
    p = new Path(baseDir, "scissorSisters");

    // Turn on its sticky bit
    hdfs.mkdirs(p, new FsPermission((short) 01666));
    applyAcl(p);
    confirmStickyBitDoesntPropagate(hdfs, p);
}

/**
 * Test that one user can't rename/move another user's file when the sticky bit is set.
 */
@Test
public void testMovingFiles() throws Exception {
    testMovingFiles(false);
}
@Test
public void testAclMovingFiles() throws Exception {
    testMovingFiles(true);
}

private void testMovingFiles(boolean useAcl) throws Exception {
    // Create a tmp directory with wide-open permissions and sticky bit
    Path tmpPath = new Path("/tmp");
    Path tmpPath2 = new Path("/tmp2");
    hdfs.mkdirs(tmpPath);
    hdfs.mkdirs(tmpPath2);
    hdfs.setPermission(tmpPath, new FsPermission((short) 01777));
    if (useAcl) {
        applyAcl(tmpPath);
    }
    hdfs.setPermission(tmpPath2, new FsPermission((short) 01777));
    if (useAcl) {
        applyAcl(tmpPath2);
    }

    // Write a file to the new tmp directory as a regular user
    Path file = new Path(tmpPath, "foo");

    writeFile(hdfsAsUser1, file);

    // Log onto cluster as another user and attempt to move the file
    try {
        hdfsAsUser2.rename(file, new Path(tmpPath2, "renamed");
        fail("Shouldn't be able to rename someone else's file with SB on");
    } catch (IOException ioe) {
        assertTrue(ioe instanceof AccessControlException);
        assertTrue(ioe.getMessage().contains("sticky bit"));
    }

/**
 * Ensure that when we set a sticky bit and shut down the file system, we get
 * the sticky bit back on re-start, and that no extra sticky bits appear after
 * re-start.
 */
@Test
public void testStickyBitPersistence() throws Exception {
    // A tale of three directories...
    Path sbSet = new Path("/Housemartins");
    Path sbNotSpecified = new Path("/INXS");
    Path sbSetOff = new Path("/Easyworld");

for (Path p : new Path[] { sbSet, sbNotSpecified, sbSetOff })
    hdfs.mkdirs(p);

    // Two directories had there sticky bits set explicitly...
    hdfs.setPermission(sbSet, new FsPermission((short) 01777));
    hdfs.setPermission(sbSetOff, new FsPermission((short) 00777));

    shutdown();

    // Start file system up again
    initCluster(false);

    assertTrue(hdfs.exists(sbSet));
    assertTrue(hdfs.getFileStatus(sbSet).getPermission().getStickyBit());

    assertTrue(hdfs.exists(sbNotSpecified));
    assertFalse(hdfs.getFileStatus(sbNotSpecified).getPermission().
        .getStickyBit());

    assertTrue(hdfs.exists(sbSetOff));
    assertFalse(hdfs.getFileStatus(sbSetOff).getPermission().
        .getStickyBit());
}

@Test
public void testAclStickyBitPersistence() throws Exception {
    // A tale of three directories...
    Path sbSet = new Path("/Housemartins");
    Path sbNotSpecified = new Path("/INXS");
    Path sbSetOff = new Path("/Easyworld");

    for (Path p : new Path[] { sbSet, sbNotSpecified, sbSetOff })
        hdfs.mkdirs(p);

    // Two directories had there sticky bits set explicitly...
    hdfs.setPermission(sbSet, new FsPermission((short) 01777));
    applyAcl(sbSet);
    hdfs.setPermission(sbSetOff, new FsPermission((short) 00777));
    applyAcl(sbSetOff);

    shutdown();

    // Start file system up again
    initCluster(false);

    assertTrue(hdfs.exists(sbSet));
    assertTrue(hdfs.getFileStatus(sbSet).getPermission().getStickyBit());
```java
assertTrue(hdfs.exists(sbNotSpecified));
assertFalse(hdfs.getFileStatus(sbNotSpecified).getPermission().getStickyBit());

assertTrue(hdfs.exists(sbSetOff));
assertFalse(hdfs.getFileStatus(sbSetOff).getPermission().getStickyBit());
}

/**
 * Write a quick file to the specified file system at specified path
 */
static private void writeFile(FileSystem hdfs, Path p) throws IOException {
FSDataOutputStream o = null;
try {
  o = hdfs.create(p);
o.write("some file contents".getBytes());
o.close();
o = null;
} finally {
  IOUtils.cleanup(null, o);
}
}

/**
 * Applies an ACL (both access and default) to the given path.
 * @param p Path to set
 * @throws IOException if an ACL could not be modified
 */
private static void applyAcl(Path p) throws IOException {
hdfs.modifyAclEntries(p, Arrays.asList(
  aclEntry(ACCESS, USER, user2.getShortUserName(), ALL),
  aclEntry(DEFAULT, USER, user2.getShortUserName(), ALL)));
}
```

1.93 hardlink 1.0 :19.el7
1.93.1 Available under license :
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1.94 hostname 3.13 :3.el7
hostname -- set the host name or show the host/domain name

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 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
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*/

For the expat xml parser component:

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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 library options
LD_SOOPTIONS= -Wl,-Bsymbic

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

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcreg)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcreg)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcreg)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcreg)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcreg)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \ 
| sed \"/\$*\/.o[: ]*$\" > $@; \ 
[ -s $@ ] || rm -f $@'
%.d: $(srcreg)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \ 
| sed \"/\$*\/.o[: ]*$\" > $@; \ 
[ -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_MAJOR) $@

## End FreeBSD-specific setup

1.98 initscripts 9.49.41 :1.el7

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>2 byte 1 512 characters, no index
>2 byte 2256 characters, Unicode index
>2 byte 3512 characters, Unicode index
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>2 byte 5512 characters, Unicode level 2 index
>3 byte 8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0 lelong0x864ab572psf2 screen font data
>12 lelong&1 1 with Unicode index
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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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        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
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}
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.. note::

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- for the nxt2002 frontend driver

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- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

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

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1.116 kmod 20 :21.el7
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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_sec_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/kpropllog.c

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```
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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmind/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slap/slapd Rpc.c
lib/gss_mechs/mech_krb5/etc/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/m 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
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
```
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
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
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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 import os
 import sys
 import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
if not is_license and indicates_license(line):
    is_license = True
if text_seen:
    warn(fname, ln, 'License begins after first line of comment')
elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
    break
# DB2 licenses start with '/-*' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ ]*)( - .*)? */\*', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*? */\*', '', line)
    line = line.strip()

    if not in_comment and '/\*' in line:
        (line, sep, comment_part) = line.partition('/\*')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
    elif in_comment and '\*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    else:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != "":
    code_seen = True

    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]  # This line was missing
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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   :hidden:

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    <title>MIT Kerberos License information &mdash; MIT Kerberos Documentation</title>

    <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
    <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
    <link rel="stylesheet" href="_static/kerb.css" type="text/css" />

</html>
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- 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_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_lsb.c
- lib/gssapi/mechglue/g_exp_sec_context.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/krb5/error_tables.kdb5_err.et`
- `slave/kpropd_rpc.kpropd_rpc.c`
- `slave/kproplog.kproplog.c`

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

.. parsed-literal::

    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:

.. parsed-literal::

   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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2129
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2133
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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
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--- db-5.3.21/src/crypto/mersenne/mt19937db.c.licensefix
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@@ -16,16 +16,27 @@

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1.129 libedit 3.0 :12.20121213cvs.el7

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1.130 libestr 0.1.9 :2.el7

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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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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
generated-as-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
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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
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In addition, mere aggregation of another work not based on the Library
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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
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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.

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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Ty Coon, President of Vice

That's all there is to it!

1.135 libgpg-error 1.12 :3.el7

1.135.1 Available under license:

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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 "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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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and
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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
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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.

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.

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.

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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.

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.

   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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(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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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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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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1.148 libpwquality 1.2.3 :5.el7

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1.149 **libseccomp 2.3.1 :3.el7**

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

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

"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.

Activities other than copying, distribution and modification are not
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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.

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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.

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.

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.)

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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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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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
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   d) If a facility in the modified Library refers to a function or a
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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.

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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
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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
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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.

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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 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.

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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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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.

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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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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
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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.

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.

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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 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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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.

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
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  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.172 mailcap 2.1.41 :2.el7

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Network Working Group   H. Krawczyk
Request for Comments: 2104   IBM
Category: Informational   M. Bellare
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       R. Canetti
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       February 1997

HMAC: Keyed-Hashing for Message Authentication

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

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

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

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

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

"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.

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

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

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

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

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.

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.

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.

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.

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.

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

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

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

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

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

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

To apply these terms, attach the following notices to the library. 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.

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

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

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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

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

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

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

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

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.
An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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

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

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

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

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.
The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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

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

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

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

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

5. Conveying Modified Source Versions.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.175 man-db 2.6.3 :9.el7

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== MariaDB ==

The Debian package of MySQL was first debianzed on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

MariaDB can be downloaded from http://downloads.askmonty.org/mariadb/
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Warnings:
Warning 1681 'SHOW CONTRIBUTORS' is deprecated and will be removed in a future release.

```
### mysql-test\license_basic.test ###
# #
# Variable Name: license #
# Scope: Global #
# Access Type: Static #
# Data Type: string #
# #
# #
# Creation Date: 2008-02-07 #
# Author: Sharique Abdullah #
# #
# #
# Description: Test Cases of Dynamic System Variable license #
# that checks the behavior of this variable in the following ways #
# * Value Check #
# * Scope Check #
# #
# #
#
```

--echo '#---------------------BS_STVARS_040_01----------------------#'
###
# Displaying default value #
###
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
--echo '#---------------------BS_STVARS_040_02----------------------#'
###
# Check if Value can set #
###
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1:
```
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '##########################BS_STVARS_040_03##########################'
# Check if the value in GLOBAL Table matches value in variable #
#**************************************************************************

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '##########################BS_STVARS_040_04##########################'
# Check if accessing variable with and without GLOBAL point to same variable #
#**************************************************************************

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '##########################BS_STVARS_040_05##########################'
# Check if license can be accessed with and without @@ sign #
#**************************************************************************

SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'
--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

'#-------------------------------------------------------------------------------BS_STVARS_040_01#-------------------------------------------------------------------------------#
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_02#-------------------------------------------------------------------------------#
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_03#-------------------------------------------------------------------------------#
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_04#-------------------------------------------------------------------------------#
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_05#-------------------------------------------------------------------------------#
SELECT COUNT(@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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==================

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1.177 microcode_ctl 2.1 :29.el7

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1.178 mlocate 0.26 :8.el7

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AC_DEFUN([gl_CANONICALIZE_LGPL],
[  dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
if test $ac_cv_func_canonicalize_file_name = no; then
   AC_LIBOBJ(canonicalize-lgpl)
   AC_DEFINE([realpath], [rpl_realpath],
      [Define to a replacement function name for realpath().])
   gl_PREREQ_CANONICALIZE_LGPL
fi
])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
   gl_PREREQ_CANONICALIZE_LGPL
])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[  AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
AC_CHECK_FUNCS_ONCE(getcwd readlink)
1.179 mozjs17 17.0.0 :20.el7

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That's all there is to it!

/* pbkdf2-hmac-sha256.c
 *
 * PKCS #5 PBKDF2 used with HMAC-SHA256, see RFC 2898.
 */

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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.)

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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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Table of Contents

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  o Preamble
  o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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Written by: Philip Hazel
Email local part: ph10
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- Expat: XML parser library.
http://expat.sourceforge.net/

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
Email local part: ph10
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Table of Contents

* GNU GENERAL PUBLIC LICENSE
  o Preamble
  o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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# contribution to the Google C++ Testing Framework project. People
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/* -.*- Mode: Text -.*- */

copyright = {
date = "1992-2017";
owner = "The University of Delaware and Network Time Foundation";
eaddr = "http://bugs.ntp.org, bugs@ntp.org";
type = ntp;
};

long-opt;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`sed -e 's/.*\[/\[//' -e 's/\]//g' < ../sntp/m4/version.m4`
[ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION';

version-value = "/
/* Don't use -v as a shortcut for --version */
/
* HMS: man pages already have this, and texi pages can use the
* values in snntp/include/version.texi .
*/
// doc-sub = {
//     sub-name = version;
//     sub-text = 's/#VERSION#/<<version>>/g';
// }
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<meta http-equiv="content-type" content="text/html;charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
<p>"Clone me," says Dolly sheepishly.

Last update:
</p>
<br clear="left">
<hr>
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<ol>
<li>Port</li>
<li>Added support for NetInfo</li>
<li>Nick Sayer added SunOS streams modules</li>
<li>Jack Sasportas added support for NetInfo</li>
<li>Ray Schnitzler added Unixware1 port</li>
<li>Michael Shields added USNO clock driver</li>
<li>Jeff Steinman added Datum PTS clock driver</li>
<li>Harlan Stenn added GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)</li>
<li>Kenneth Stone added HP-UX port</li>
<li>Ajit Thyagarajan added IP multicast/anycast support</li>
<li>Tomoaki TSURUOKA added TRAK clock driver</li>
<li>Brian Utterback added General codebase, Solaris issues</li>
<li>Loganaden Velvindron added Sandboxing (libseccomp) support</li>
<li>Paul A Vixie added TrueTime clock driver</li>
<li>Ulrich Windl added corrected and validated HTML documents according to the HTML DTD</li>
</ol>

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1.196 oci-register-machine 0 :6.git2b44233.el7

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 */

#ifndef HAVE_SETREGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRUID
int setresuid(uid_t, uid_t, uid_t);
#endif

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
    /* the following are currently not implemented */
    #define POLLPRI 0x0002
    #define POLLRDNORM 0x0040
    #define POLLNORM POLLRDNORM
    #define POLLWRNORM POLLOUT
#else
    #define POLLPRI 0x0002
    #define POLLRDNORM 0x0040
    #define POLLNORM POLLRDNORM
    #define POLLWRNORM POLLOUT
#endif

#else
    /* OPENBSD ORIGINAL: sys/sys/poll.h */
#endif
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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/* */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
#endif

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
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*
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$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp $

diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode	2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.82017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
 .Op Fl P Ar blacklisted_requests
 .Op Fl p Ar whitelisted_requests
 .Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
 .Ek
 .Nm
 .Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@
Sets an explicit
.Xr umask 2
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
 .El
 .Pp
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@
/* Version of client */
static u_int version;

*/ Force file permissions */
+int permforce = 0;
+long permforcemode;
+
/* SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,7 @@ process_open(u_int32_t id)
    Attr a;
    char *name;
    int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+    mode_t old_umask = 0;

    if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
        (r = sshbuf_get_u32(iqueue, &pflags)) != 0 || /* portable flags */
    @ @ -688.6 +693.10 @@ process_open(u_int32_t id)
        debug3("request %u: open flags %d", id, pflags);
        flags = flags_from_portable(pflags);
        mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+        if (permforce == 1) { /* Force perm if -m is set */
+            mode = permforcemode;
+            old_umask = umask(0); /* so umask does not interfere */
+        }
        logit("open \"%s\" flags %s mode 0%o",
            name, string_from_portable(pflags), mode);
        if (readonly &&
    @ @ -709.6 +718.8 @@ process_open(u_int32_t id)
        }
    }
    }
+    if (permforce == 1)
        +(void) umask(old_umask); /* restore umask to something sane */
    if (status != SSH2_FX_OK)
        send_status(id, status);
    free(name);

    fprintf(stderr,
           "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
"                   "[-l log_level|\n][-P blacklisted_requests] 
-  "[-p whitelisted_requests] [-u umask]\\n" +  "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\\n"            " "%s -Q protocol_feature\n",
           __progname, __progname);
    exit(1);
    @ @ -1490.7 +1501.7 @@ sftp_server_usage(void)
    fprintf(stderr, 
"usage: %s [-ehR] [-d start_directory] [-f log_facility] 
"                   "[-l log_level|\n][-P blacklisted_requests] 
-  "[-p whitelisted_requests] [-u umask]\n" +  "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\n"            " "%s -Q protocol_feature"
",
           __progname, __progname);
    exit(1);
    @ @ -1516.7 +1527.7 @@ sftp_server_main(int argc, char **argv,
                   pw = pwcopy(user_pw);

    while (!skipargs && (ch = getopt(argc, argv,
        + "[d:f:l:P:Q:u:m:cehR"] != -1) {
            switch (ch) {
                    case 'Q':
                if (strcmp(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,  
fatal("Invalid umask ""%s"", optarg);  
(void)umask((mode_t)mask);  
break;
+case 'm':  
+/* Force permissions on file received via sftp */  
+permforce = 1;  
+permforcemode = strtol(optarg, &cp, 8);  
+if (permforcemode < 0 || permforcemode > 0777 ||  
+    *cp != '0' || (permforcemode == 0 &&  
+    errno != 0))  
+fatal("Invalid file mode ""%s"", optarg);  
+break;
+case 'h':
+default:
+sftp_server_usage();

This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on Wed, 13 Jan 2010 01:08:49 +0300.

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/\n/\n/\n/\n\/* OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLINVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif

Open Source Used In Network Assurance Engine Release 3.0(1)
3209
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int *)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

/* ifndef HAVE_WAITPID */
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int *)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
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* Jan-Pieter Cornet (johnpc) - 2012-03-23 03:25:52 PDT
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1.200 openssl 1.0.2k :12.el7

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1.209 pcre 8.32 :17.el7
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PCRE LICENCE

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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STACK-LESS JUST-IN-TIME COMPILER

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THE C++WRAPPER FUNCTIONS

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1.210 perl 5.16.3 :292.el7
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3304
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When `%^H` is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in `hv_copy_hints_hv` and the new value (for an element) in `newSVsv`.

By fixing `newSVsv` itself, this also fixes any potential leaks when other pieces of code call `newSVsv` on explosive values.

Petr Pisar: Ported to 5.16.3

---

```
+hv.c | 6 ++++++
+sv.c | 7 ++++-
+t/op/svleak.t | 22 +++++++++++++++++++++-
3 files changed, 31 insertions(+), 4 deletions(-)
```

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);
+SAVEFREESV(hv);
+ENTER;
+while (hv_max && hv_max + 1 >= hv_fill * 2) {
+   hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 } }  
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+SVREFCNT_inc_simple_void_NN(hv);
```
+LEAVE;

}  
  hv_magic(hv, NULL, PERL_MAGIC_hints);
  return hv;

diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
       SV_GMAGIC is the default for sv_setv()
-      SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+      /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
           with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
-      sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+      sv_setsv_flags(sv, old, SV_NOSTEAL);
      return sv;
}

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
  or skip_all("XS::APItest not available");
 }

-# run some code N times. If the number of SVs at the end of loop N is
-# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
        undef $h;
    }, 'tied hash iteration does not leak);
+    package hhtie {
+        sub TIEHASH { bless [] }
+        sub STORE { $_[0][0][$_[1]] = $_[2] }
+        sub FETCH { die if $explosive; $_[0][0][$_[1]] }
+        sub FIRSTKEY { keys %$_[0][0]; each %$_[0][0] }
+    }
+ sub NEXTKEY { each %{$_[0][0]} } +
+leak(2,!!$Config{mad}, sub {
+  eval q`
+    BEGIN {
+      $hhtie::explosive = 0;
+      tie %^H, hhtie;
+      $^H{foo} = bar;
+      $hhtie::explosive = 1;
+    }
+    { 1; }
+    `;
+  }, 'hint-hash copying does not leak');
--
1.8.1.4
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Also add information on how to contact you by electronic and paper mail.

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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
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commands you use may be called something other than `show w' and `show
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program.

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

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The End
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.
" build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

------------------------------------------------------------------------

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

use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-----------------------------------------------#
# Create test distribution
#-----------------------------------------------#

{ my $dist = DistGen->new(
   name => 'Simple::Name',
   version => '0.01',
   license => 'perl'
);

$dist->regen;
$dist->chdir_in;
my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
  "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
  "META license URL is correct" );
}

{ my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);
$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
  "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
  "META license URL is correct" );
}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
1.211 perl-Carp 1.26 :244.el7
1.211.1 Available under license:
From RPM File Metadata:GPL+ or Artistic

1.212 perl-constant 1.27 :2.el7
1.212.1 Available under license:
From RPM File Metadata:GPL+ or Artistic

1.213 perl-Encode 2.51 :7.el7
1.213.1 Available under license:
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1.214 perl-Error 0.17020 :2.el7
1.214.1 Available under license:
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1.215 perl-Exporter 5.68 :3.el7
1.215.1 Available under license:
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1.216 perl-File-Path 2.09 :2.el7
1.216.1 Available under license:
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1.217 perl-File-Temp 0.23.01 :3.el7
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1.218.1 Available under license :
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1.219 perl-Getopt-Long 2.40 :3.el7
1.220 perl-HTTP-Tiny 0.033 :3.el7

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<signature of Ty Coon>, 1 April 1989
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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.

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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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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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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.

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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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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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=====================================

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://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 https://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.

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Mersenne Twister
--------------
The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------
The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
text is available at
http://www.ietf.org/rfc/rfc1321.txt
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The original and principal author of md5.h is L. Peter Deutsch
ghost@aladdin.com. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
 references to Ghostscript; clarified derivation from RFC 1321;
 now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
 added conditionalization for C++ compilation from Martin
 Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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UUencode and UUdecode functions
---------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard
XML Remote Procedure Calls

-------------------------------

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Select kqueue
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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.

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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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<th>Year</th>
<th>Owner</th>
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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.

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

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

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

"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.

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

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

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

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

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.

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.

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.

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.

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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END OF TERMS AND CONDITIONS

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To apply these terms, attach the following notices to the library. 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.

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

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

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

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

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

That's all there is to it!

1.257 python-configobj 4.7.2 :7.el7
1.257.1 Available under license :
From RPM File Metadata:BSD

1.258 python-crypto 2.6.1 :15.el7
1.258.1 Available under license :
Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and
To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

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Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF
under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmailmgr-postfix 7604 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
>
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.
The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

==================================================================
> Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
>==================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

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Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Thanks a lot, and don't worry about not responding to previous emails. I
do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
>
>Hi Dwayne.
>
>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies
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>
>Regards,
>Mark.
>
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>>
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>> and I am
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>>
>
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

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--amk

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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===================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
    Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
    for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
    for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in '
mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched))
receiver=goedel.dlitz.net; identity=mfrom; envelope-
    from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
    by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
    for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so125333rvb.26
    for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
    d=gmail.com; s=gamma;
    h=domainkey-signature:mime-version:received:in-reply-to:references:
    :date:message-id:subject:from:to:content-type;
    bh=YWy9U32WCU/ksRukHwaOZYyJQBUs4Yvt5ml20U6mlg=;
    b=oMjl221IxYjKge2zNJW3tRiU9LqFXmey5Wp0pLfuNFiX3duyfhopTuBAKw7MwVY
    B5E6VQuGVEyzBbNsctyVqg6DhQf0uCLZymSViobmuDmKn5DxU0x0CxQmHYaas
    L9/A6D3/J66kKrNbgX9mc0GPcZTviVFYkPR0Q=
DomainKey-Signature: a=rsa-sha1; c=nofws;
    d=gmail.com; s=gamma;
    h=mime-version:in-reply-to:references:date:message-id:subject:from:to
    :content-type;
    b=Ym7CStuDEfJKay1AJyWZkZmJA1nTcwCG6akBHA XLd8ht6PFcmlsffzzZG8hJCI VJ8
    vljqcT+G6cywVTFBw1pyGX7ECYzo0+vfhVgdpACGr s24zikHfpSSd5FGozgXaLVvGVH 8p
    bqShPwWkTEp4gAQkiNeiq1GNt R2j8U3fnR y= MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
    Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417d8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
> text in the current LICENSE file (quoted below) is not entirely clear on the
> point of whether distributing modified versions is allowed. (It says
> "distribute and use", but not "modify".)
> 
> ==============================================================
> Distribute and use freely; there are no restrictions on further
> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> ==============================================================
> 
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> (though that would be nice).
> 
> --amk (www.amk.ca)
> 
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> clearer licensing regime. I am asking as many copyright holders as I can
> find if I can release PyCrypto under something clearer and more standard.
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> _Intellectual Property and Open Source: A Practical Guide to Protecting
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> Pointer, and Wim Lewis, and they have all approved the following text for
> their contributions.
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The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
-Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response. Please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger wrote:

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-
The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

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For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Poin ter, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. On your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file.
On November 23, 2008, you wrote:

> Hi Wim,
> 
> > I am the new maintainer of the Python Cryptography Toolkit, and I am
> > working on a new release at http://www.pycrypto.org/.
> > 
> > > I understand that you have made contributions to PyCrypto. May I, on
> > > your behalf, dedicate to the public domain all your contributions to
> > > PyCrypto, with the following notice?
> > >
> > The contents of this file are dedicated to the public domain. To the
> > extent that dedication to the public domain is not available, everyone
> > is granted a worldwide, perpetual, royalty-free, non-exclusive license
> > to exercise all rights associated with the contents of this file for
> > any purpose whatsoever. No rights are reserved.
> >
> Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
> implementation, which already has a public-domain notice at the top of
> the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSSnnAl8UnN8n93LBAQL-p/gQAhr7x8Avmstc2kxEJDWTm26PTAZxMz4B
FektbD0zkgc5580MGGeEX/MVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+6exJQ3juh8IPHLAduOXtRtguas/yR+Doaq0xOPKoBx+/5+t1LLJtBcZ
wrPEa90ui9s=
zSY9
-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back.
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJhnEjvBPlnXiVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLDHl6agk
evkJnSJQAcvHlIZnVIvEr51XgvDUMakZjU4SOV7MqkhsKA9Iet7PaD9VSYgn3ra5
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
>
> May I, on your behalf, dedicate to the public domain all your
> contributions to PyCrypto, with the following notice?
> 
> =
> ======================================================================
>    The contents of this file are dedicated to the public domain. To
> the
> extent that dedication to the public domain is not available,
> everyone
>    is granted a worldwide, perpetual, royalty-free, non-exclusive
> license
>    to exercise all rights associated with the contents of this file
>    for
> any purpose whatsoever. No rights are reserved.
> =
> ======================================================================
>
In case I haven't replied to this yet: Yes, this is fine with me.

robey
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").
Open Source Used In Network Assurance Engine Release 3.0(1)

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification

Message-ID: <20081123125134.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>

Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification

Message-ID: <20081123125134.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
User-Agent: Mutt/1.5.13 (2006-08-11)
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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===================================================================
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--amk (www.amk.ca)

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6]) by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4 for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
> Hi Paul,
> > I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> 
> Yes, that's fine.  Good luck with the new release!

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> >> Hi Paul,
> >>
> >> I am the new maintainer of the Python Cryptography Toolkit, and I am
> >> working on a new release at http://www.pycrypto.org/.
> >
> >That's great!
> >
> >> I understand that you have made contributions to PyCrypto, under nickname
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> >>
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> >> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> >> to exercise all rights associated with the contents of this file for
> >> any purpose whatsoever. No rights are reserved.
> >>
> >>
> >Yes, that's fine. Good luck with the new release!

Perfetct! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Mon May 4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Dispostion: inline
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May 5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
  for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)
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Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smt6.versatel.nl; client-ip=62.58.50.97
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  (envelope-sender <joris@bontje.nl>)
  by 10.170.1.96 (qmail-ldap-1.03) with SMTP
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Received: from firewall66.interaccess.nl (firewall66.interaccess.nl
  [193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
  Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
From: joris@bontje.nl
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
References: <20090505024914.GA9219@rivest.dlitz.net>
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset=ISO-8859-1;
format="flowed"
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going. I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
> 
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> 
>=======================================================================

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> >
> > --amk (www.amk.ca)
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> =======================================================================
> > Regards,
> > - Dwayne
> >
> > Dwayne C. Litzenberger <dlitz@dlitz.net>
> > Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
> >
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> > effort to keep this going.
> > I was very excited to read that it is now one of the installed libraries
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Key-signing key: 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

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.

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</tr>
</tbody>
</table>

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From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6]) by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
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Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13]) by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088 for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
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To: crypt@bis.doc.gov,
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    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
    dlitz@dlitz.net
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailfrom;
Open Source Used In Network Assurance Engine Release 3.0(1)

---BEGIN PGP SIGNED MESSAGE-----

########################################################
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
#   dlitz@dlitz.net
# requested that this message be sent to:-
#   crypt@bis.doc.gov
#   enc@nsa.gov
#   web_site@bis.doc.gov
#   pycrypto@lists.dlitz.net

----------

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3585
SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
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Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

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Dwayne C. Litzenberger <dlitz@dlitz.net>
1.259 python-cryptography 1.7.2 :2.el7

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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
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All Python releases are Open Source (see http://www.opensource.org for
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1.267 python-jinja2 2.8 :7.rhel7

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1.270 python-kitchen 1.1.1 :5.el7
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1.272 python-markupsafe 0.11 :10.el7

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1.273 python-paramiko 2.1.1 :4.el7

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1.274 python-ply 3.4 :11.el7

1.275 python-pyasn1 0.1.9 :7.el7

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1.276 python-pycparser 2.14 :1.el7

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1.277 python-pycurl 7.19.0 :19.el7
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1.283 python-urlgrabber 3.10 :8.el7

1.283.1 Available under license:

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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========================

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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
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Mersenne Twister
-------------

The `random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
Sockets
-------


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--------------------------------

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
--------------------------------

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- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-----------------

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1.285 python2-crypto 2.6.1 :15.el7

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Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

---

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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and
more standard.
Below, I have quoted a public domain dedication that was
recommended in
_Intellectual Property and Open Source: A Practical Guide
to Protecting
_Code_, by Van Lindberg. I have already contacted A.
M. Kuchling, Robey
Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
have all
approved the following dedication for their contributions.

I understand that you have made contributions to
PyCrypto. May I, on your
behalf, dedicate to the public domain all your
contributions to PyCrypto,
with the following notice?

======================================================================
       The contents of this file are dedicated to the public domain. To
       the extent that dedication to the public domain is not available, everyone
       is granted a worldwide, perpetual, royalty-free, non-exclusive license
       to exercise all rights associated with the contents of this file for
       any purpose whatsoever. No rights are reserved.
======================================================================

Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1
1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)
allowed. (It says "distribute and use", but not "modify".)

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>>======================================================================
>>
>> Regards,
>> - Dwayne
>>
>>-- Dwayne C. Litzenberger <dlitz@dlitz.net>
>> Key-signing key   - 19E1
>> 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
>>
>>--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:
>Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
>
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
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> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAh7x8Av1mstc2kxJEJDTm26PTAZxMz4B
FektbDOzkxgc5580MGGeeXMVn8aw+1BHg0YD85gsntDzkcQtb+BR/xAvJ5zKyA
J/Mn+j46ekJQ3juh8IPHLAdu0XM9Rtguas/yR+Doaq0xOPKoBx/+5+t1LJtBcZ
wrPEa9Oui9s=
=5Y9
-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE88B3CF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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--amk  (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?
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Regards,
- Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWClVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYARECAAYFakko52lACgkQH6IlL4eAS0XPPQCfcyQQ2DdAXKc9N7Z+jeSFFD5EZ
yloAn33a3ZjkncyJaTbyEeqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWClVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id D632D10111
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
People often ask me what license PyCrypto is covered by, if it's
GPL-compatible, etc. Right now, I'm not really sure what to tell them.
The text in the current LICENSE file (quoted below) is not entirely clear
on the point of whether distributing modified versions is allowed. (It
says "distribute and use", but not "modify".)

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable
contributions to PyCrypto, with the following notice?

You may.

--amk
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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===================================================================
Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17  A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
    Received: (vmailmgr-postfix 8668 invoked by uid 1003);  2 Mar 2009 10:29:39 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
        envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
    Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
        by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 10:29:38 -0600 (CST)
    Received: from snowdog.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
        by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flopped; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important Python library.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJhnEjvBPnXIvAQLZjgLZgP/ceG+JdZwNvPJRfsa6rhY6+MHLDHI6agk
evkJnSJQAeVHZnVVeR5IxgDUMaZjU4SOV7MqkhskA9Iet7PaD9VSYgn3ra5
gEiwI2DQDoOy5GExXMm74qrrb1PCCbCRmpaYNko+DZohwHkeFBjpwDRA3wItOrH7
SK4w9VBfY=3D
=3DQdU
-----END PGP SIGNATURE-----

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

> Hi Paul,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> =C2=A0The contents of this file are dedicated to the public domain. =C2=
> =A0To the
> =C2=A0extent that dedication to the public domain is not available, every=
> one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> =C2=A0to exercise all rights associated with the contents of this file fo=
> r
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.

Yes, that's fine. Good luck with the new release!

-p

--=20

Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin

From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
> >>> Hi Paul,
> >>>
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> >>> any purpose whatsoever. No rights are reserved.
> >>>======================================================================
> >
> > Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Hi Joris,

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:
=======================================================================
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=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
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--amk                                                    (www.amk.ca)

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Regards,
- Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May  5 17:53:47 2009
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
> 
> Thanks for taking over the PyCrypto library and putting in the required
> effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
> for Google AppsEngine!
> 
> You have my full permission to dedicate all my contributions to PyCrypto to
> the public domain with your suggested notice:
> 
> ==============================================================
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> ==============================================================
> 
> Regards,
> Joris
> 
> Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it’s GPL-compatible, etc. Right now, I’m not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says “distribute and use”, but not “modify”.)

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For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard.

Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> 
> May I, on your behalf, dedicate to the public domain all your
> contributions to PyCrypto, with the following notice?
> 
> =
> =
> The contents of this file are dedicated to the public domain. To
> the
> extent that dedication to the public domain is not available,
> everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive
> license
> to exercise all rights associated with the contents of this file
> for
> any purpose whatsoever. No rights are reserved.
In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

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=Mv6g
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00INDEX This file
LICENSE.org Original (deprecated) license for the Python Cryptography Toolkit
LICENSE.libtom LICENSE file from LibTomCrypt
stmts/ Statements by contributors

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.

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Open Source Used In Network Assurance Engine Release 3.0(1)

3750
from compatible? (1)

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Footnotes:

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that
contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmns" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
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Delivered-To: m-dlitz-dlitz@dlitz.net
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by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
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   web_site@bis.doc.gov,
   pycrypto@lists.dlitz.net,
   PYTHON-CRYPTO@NIC.SURFNET.NL,
   dlitz@dlitz.net
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preference=signencrypt
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X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length: 2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

########################################################
#
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
#   dlitz@dlitz.net
# requested that this message be sent to:-
#   crypt@bis.doc.gov
#   enc@nsa.gov
#   web_site@bis.doc.gov
#   pycrypto@lists.dlitz.net
#   PYTHON-CRYPTO@NIC.SURFNET.NL
#   dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
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# http://www.itconsult.co.uk/stamper.htm
#
########################################################

Open Source Used In Network Assurance Engine Release 3.0(1)

3758
SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

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Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

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-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

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=== EOF ===

00INDEX                 - This file
tsu-notify.mbox         - Notification sent per U.S. export regulations
copy/                   - Copyright info & public-domain dedications
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in
'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun,  8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=nofws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references :date:message-id:subject:from:to:content-type;
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DomainKey-Signature: a=rsa-sha1; c=nofws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references :date:message-id:subject:from:to
:content-type;
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bqSHpfWKkT4P4gAQklNeIq1GNtr2j8U3fnRyg=
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> > I am the new maintainer of the Python Cryptography Toolkit, and I am
> > working on a new release at http://www.pycrypto.org/.
> > 
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> > ===================================================================
> >
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======================================================================
```

Regards,

- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC). &lt;div&gt;&lt;div&gt;I'd be fine with the public domain license f= or PyCrypto.&lt;/div&gt;&lt;br&gt;&lt;/div&gt;&lt;div&gt;Jeethu Rao&lt;/div&gt;&lt;div&gt;PS: Apologies fo= r the delay in my response.&lt;/div&gt;
I don’t really check this email address all that often,

 please direct any further correspondence to jeethu-rao.com

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Regards,

-Dwayne

--
Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3C9 F273 ED17 =A04A24 928C EC13 39C2 5CF7<br></div></div>
</div></div>
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---
1.286 pyxattr 0.5.1 :5.el7
1.286.1 Available under license:

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Version 2.1, February 1999

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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.

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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.

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1.287 PyYAML 3.13

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
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G., Daniel Richard
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Gerraty, Simon J.
Graber, Stephane
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Hayman, Randy M.
Henke, Joachim
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Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
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Petten, Diego Elio
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Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
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Hein, Jochen
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1.310 sysfsutils 2.1.0 :16.el7

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The GNU General Public License (GPL)
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1.312 systemd 219 :57.el7
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Appendix: How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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.

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

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

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
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You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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) 19yy 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 is a sample; alter the names:

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

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

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

1.319 trousers 0.3.14 :2.el7
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For example, if you distribute copies of such a program, whether
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you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
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We protect your rights with two steps: (1) copyright the software, and
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distribute and/or modify the software.

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

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

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

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

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

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

a) 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; or,

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

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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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.

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

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

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

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

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) year 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 is a sample; alter the names:

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

<signature of Ty Coon>, 1 April 1989
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This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

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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.

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.

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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Each licensee is addressed as "you".

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

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

"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.

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

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

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

   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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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.

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.

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.

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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
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---

#1:         32       7648  0x83
#2:       7680       8704  0xa5
#5:       7936       4864  0x7 (freebsd)
#6:      12544       3584  0x7 (freebsd)

Initialize empty image
f1c9645dcb14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device  Boot   Start     End     Blocks   Id  System
----------  ------  -------  ------  --------  --  -------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img
---layout---------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
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<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1beb87248e05d66e4e62b749daa65d023 bsd.img
Set 2nd partition type
2d8e8d8ff5a88a0a45db233418dd73f8 bsd.img

---layout---------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout---------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

# start end size fstype [fsizer bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
---------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

<table>
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</tr>
<tr>
<td>#</td>
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<tr>
<td>a:</td>
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<tr>
<td>c:</td>
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<tr>
<td>d:</td>
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</tr>
</thead>
<tbody>
<tr>
<td>0  unused           5  4.1BSD           9  4.4LFS           d  boot</td>
</tr>
<tr>
<td>1  swap             6  Eighth Edition   a unknown          e ADOS</td>
</tr>
<tr>
<td>2  Version 6        7  4.2BSD           b HPFS             f HFS</td>
</tr>
<tr>
<td>3  Version 7        8  MS-DOS           c ISO-9660        10 AdvFS</td>
</tr>
<tr>
<td>4  System V</td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):

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                2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:  (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001

if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
elseif exists("b:current_syntax")
  finish
endif

" Product specification files are case sensitive
syn case match

  syn keyword psfObject bundle category control_file depot distribution
  syn keyword psfObject end file fileset host installed_software media
  syn keyword psfObject product root subproduct vendor

  syn match  psfUnquotString +[^# ][^#]+ contained
  syn region psfQuotString  start=\" + skip=\"+ end=\"+ contained

  syn match  psfObjTag    "\[-_+A-Z0-9a-z]+(\.|\[-_+A-Z0-9a-z]\\)+[^ \t #]+ contained
  syn match  psfAttAbbrev   "\([-_+A-Z0-9a-z]+(\.|\[-_+A-Z0-9a-z]\\)+[^ \t #]+ contained
  syn match  psfObjTags   "\([-_+A-Z0-9a-z]+(\.|\[-_+A-Z0-9a-z]\\)+[^ \t #]+ contained

syn match  psfNumber    "\d+" contained
Some of the attributes covered by attUnquotString and attQuotString:

- architecture
- category_tag
- control_directory
- copyright
- create_date
- description
- directory
- file_permissions
- install_source
- install_type
- location
- machine_type
- mod_date
- number
- os_name
- os_release
- os_version
- pose_as_os_name
- pose_as_os_release
- readme
- revision
- share_link
- title
- vendor_tag

These regions are defined in attempt to do syntax checking for some of the attributes.

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syn region psfAttState matchgroup=psfAttrib start="^\s*\(state\)\s\+" contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="^\s*\(patch_state\)\s\+" contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib start="^\s*\(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse\)\s\+" contains=psfBoolean,psfComment end="$" keepend oneline

syn match psfComment ".#$"

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else
    command -nargs=+ HiLink hi def link <args>
  endif
endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment
delcommand HiLink
delend

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar
SUMMARY

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

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==============================================================================
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have
to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now
under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html
World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
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For amounts above 400 Euro ($500) sending a check is preferred.

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Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
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If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
1.325.1 Available under license:

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1.331 yum 3.4.3 :158.el7.centos
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diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
 A single update notice (for instance, a security fix).

-    def __init__(self, elem=None):
+    def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from'      : '',
            'type'      : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
 if elem:
             self._parse(elem)

+    self._repoid = repoid
+    self._vlogger = vlogger
def __getitem__(self, item):
    """ Allows scriptable metadata access (ie: un['update_id']). """
    if type(item) is int:
        if hasattr(un, '_repoid') and un._repoid is not None:
            return un._repoid
        else:
            return '<unknown>'
    else:
        return un[item]

    if not other or not hasattr(other, '_md'):
        return False

    data = 'status'
    if self._md[data] != other._md[data]:
        _log_failure(data)
        return False
    # FIXME: Massive hack, Fedora is really broken and gives status=stable
    # and status=testing for updateinfo notices, just depending on which
    if other._md[data] not in ('stable', 'testing'):
        _log_failure(data)
        return False
    # They are both really "stable" ...
    self._md[data] = 'stable'

    if self._md[data] != other._md[data]:
        _log_failure(data)
        return False
    # Tests to see if it's "the same data", which means that the
    # packages can be different (see add_notice).
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
     for event, elem in safe_iterparse(infile, logger=self._logger):
         if elem.tag == 'update':
             try:
-                un = UpdateNotice(elem)
+                un = UpdateNotice(elem, repoid, self._vlogger)
             except UpdateNoticeException, e:
                 msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
                 if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
                     msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
                         _rid(repoid))
                 if not have_dup:
-                    msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%")
+                    msg += _("If you are the owner, consider re-running the same command with --verbose to see the '
+                    'exact data that caused the conflict.")
                 have_dup = True
                 if self._vlogger:
                     self._vlogger.warn("%s", msg)
 diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
        """Return all notices. """
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
                 other_arch_list = []
                 notices = set()
                 for notice in self.get_notices(name):
                     for upkg in notice['pkglist']:
                         for pkg in upkg['packages']:
-                            if pkg['name'] != name or pkg['arch'] != arch:
-                                continue
-                            if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                            other_arch = False
+                            if pkg['name'] != name or pkg['arch'] != arch:
+                                continue
+                            if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                                other_arch = True
+                            else:
+                                continue
+                            continue

"""
pkg tup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
          pkg['version'], pkg['release'])
if _rpm_tup_vercmp(pkg tup, oldpkg tup) <= 0:
    continue
    ret.append((pkg tup, notice))
+       if other_arch:
+           other_arch_list.append((pkg tup, notice))
+       else:
+           ret.append((pkg tup, notice))
+           notices.add(notice)
+       for pkg tup, notice in other_arch_list:
+           if notice not in notices:
+               ret.append((pkg tup, notice))
ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):
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This contrib depends on binary only jar libraries developed at:

https://jersey.dev.java.net/
https://grizzly.dev.java.net/

This contrib module includes icons available under the Eclipse Public Licence Version 1.0
. from the Eclipse Java Devlopment Platform.
The lib sub-directory includes a binary only jar library developed at http://sourceforge.net/projects/jtoaster/

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