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In your requests please include the following reference number 78EE117C99-86315726

Contents

1.1 abattis-cantarell-fonts 0.0.7 :1.fc16

1.1.1 Available under license

1.2 abrt 2.0.7 :3.fc16

1.2.1 Available under license

1.3 accountsservice 0.6.15 :3.fc16

1.3.1 Available under license

1.4 acl 2.2.51 :2.fc16

1.4.1 Available under license

1.5 acpid 2.0.14 :1.fc16

1.5.1 Available under license

1.6 alsa-lib 1.0.26

1.6.1 Available under license

1.7 alsa-lib_asever 1.0.26

1.7.1 Available under license

1.8 alsa-utils 1.0.26 :1.fc16

1.8.1 Available under license

1.9 anthy 9100h

1.9.1 Available under license

1.10 antlr 3.2

1.10.1 Available under license

1.11 antlr3 3.2 :14

1.11.1 Available under license

1.12 arj 3.10.22

1.12.1 Available under license

1.13 at 3.1.13

1.13.1 Available under license

- 1.14 atk 2.2.0**
 - 1.14.1 Available under license
- 1.15 attr 2.4.46**
 - 1.15.1 Available under license
- 1.16 audit 2.2.1**
 - 1.16.1 Available under license
- 1.17 authconfig 6.1.16**
 - 1.17.1 Available under license
- 1.18 avahi 0.6.30**
 - 1.18.1 Available under license
- 1.19 Babel 1.3**
 - 1.19.1 Available under license
- 1.20 bc 1.06.95 :1.el6**
 - 1.20.1 Available under license
- 1.21 biosdevname 0.3.11 :1.el6**
 - 1.21.1 Available under license
- 1.22 bluez 4.93**
 - 1.22.1 Available under license
- 1.23 Boost 1.47**
 - 1.23.1 Available under license
- 1.24 bridge-utils 1.5**
 - 1.24.1 Available under license
- 1.25 btparser 0.13 :1.el6**
 - 1.25.1 Available under license
- 1.26 btrfs-progs 0.19**
 - 1.26.1 Available under license
- 1.27 bzip2 1.0.6**
 - 1.27.1 Available under license
- 1.28 c-ares 1.7.4**
 - 1.28.1 Available under license
- 1.29 cairo 1.10.2**
 - 1.29.1 Available under license
- 1.30 cdparanoia 10.2 :5.1.el6**
 - 1.30.1 Available under license
- 1.31 checkpolicy 2.1.6**
 - 1.31.1 Available under license
- 1.32 chkconfig 1.3.59**
 - 1.32.1 Available under license
- 1.33 chrony 1.26**

- 1.33.1 Available under license
- 1.34 clutter 1.8.4**
 - 1.34.1 Available under license
- 1.35 clutter-gtk 1.0.4**
 - 1.35.1 Available under license
- 1.36 cogl 1.8.2**
 - 1.36.1 Available under license
- 1.37 colord 0.1.21**
 - 1.37.1 Available under license
- 1.38 compat-readline5 5.2 :17.1.el6**
 - 1.38.1 Available under license
- 1.39 ConsoleKit 0.4.5**
 - 1.39.1 Available under license
- 1.40 control-center 3.2.3**
 - 1.40.1 Available under license
- 1.41 coolkey 1.1.0 :15.el5**
 - 1.41.1 Available under license
- 1.42 coreutils 8.12**
 - 1.42.1 Available under license
- 1.43 cpio 2.11**
 - 1.43.1 Available under license
- 1.44 cracklib 2.8.18**
 - 1.44.1 Available under license
- 1.45 crda 1.1.1_2010.11.22 :1.el6**
 - 1.45.1 Available under license
- 1.46 cronie-1.4.8 1.4.8**
 - 1.46.1 Available under license
- 1.47 Crypto++ 5.6.1**
 - 1.47.1 Available under license
- 1.48 curl 7.21.7**
 - 1.48.1 Available under license
- 1.49 cyrus-sasl 2.1.23 :13.el6**
 - 1.49.1 Notifications
 - 1.49.2 Available under license
- 1.50 dbus 1.4.10**
 - 1.50.1 Available under license
- 1.51 dbus-glib 0.98**
 - 1.51.1 Available under license
- 1.52 dbus-python 0.83.0 :6.1.el6**

- 1.52.1 Available under license
- 1.53 dconf 0.10.0**
 - 1.53.1 Available under license
- 1.54 desktop-file-utils 0.21**
 - 1.54.1 Available under license
- 1.55 device-mapper-multipath 0.4.9 :31.el6**
 - 1.55.1 Available under license
- 1.56 devilspie 0.22**
 - 1.56.1 Available under license
- 1.57 dialog 1.1-20111020**
 - 1.57.1 Available under license
- 1.58 dialog_scripts 1.1-20111020**
 - 1.58.1 Available under license
- 1.59 diffutils 3.2**
 - 1.59.1 Available under license
- 1.60 dnsmasq 2.59-5**
 - 1.60.1 Available under license
- 1.61 dos2unix 5.3.1**
 - 1.61.1 Available under license
- 1.62 dosfstools 3.0.12-1**
 - 1.62.1 Available under license
- 1.63 dracut 018 :60**
 - 1.63.1 Available under license
- 1.64 dump 0.4b44**
 - 1.64.1 Available under license
- 1.65 e2fsprogs 1.41.14**
 - 1.65.1 Available under license
- 1.66 ed 1.5**
 - 1.66.1 Available under license
- 1.67 eject 2.1.5 :17.el6**
 - 1.67.1 Available under license
- 1.68 eog 3.2.1**
 - 1.68.1 Available under license
- 1.69 ethtool 3.1-1**
 - 1.69.1 Available under license
- 1.70 exo 0.6.2 :3**
 - 1.70.1 Available under license
- 1.71 expat 2.1.0 :1**
 - 1.71.1 Available under license

1.72 expat_PrintPath 2.1.0 :1

1.72.1 Notifications

1.72.2 Available under license

1.73 FAAC 1.28

1.73.1 Available under license

1.74 fedora-icon-theme 1.0.0 :11

1.74.1 Available under license

1.75 findutils 4.5.10

1.75.1 Available under license

1.76 finger 0.17 :36.fc9

1.76.1 Available under license

1.77 fipscheck 1.3.0

1.77.1 Available under license

1.78 firebreath 1.7

1.78.1 Available under license

1.79 flac 1.2.1

1.79.1 Available under license

1.80 Flask 0.10

1.80.1 Available under license

1.81 flask-babel 0.9

1.81.1 Available under license

1.82 Flask-login 0.2.7

1.82.1 Available under license

1.83 fontconfig 2.8.0

1.83.1 Available under license

1.84 fontpackages 1.44

1.84.1 Available under license

1.85 fprintf 0.4.1 :1

1.85.1 Available under license

1.86 freetype-2.4.6 2.4.6 :ICS

1.86.1 Available under license

1.87 fribidi 0.19.2

1.87.1 Available under license

1.88 ftp 0.17 :51.1.el6

1.88.1 Available under license

1.89 gamin 0.1.10 :9.el6

1.89.1 Available under license

1.90 gawk 4.0.1

1.90.1 Available under license

- 1.91 gcc 4.6.3**
 - 1.91.1 Available under license
- 1.92 gconf2 3.2.3**
 - 1.92.1 Available under license
- 1.93 gd 2.0.35**
 - 1.93.1 Available under license
- 1.94 gdb 7.3.50**
 - 1.94.1 Available under license
- 1.95 gdbm 1.8.3**
 - 1.95.1 Available under license
- 1.96 gdk-pixbuf2 2.24.1**
 - 1.96.1 Available under license
- 1.97 gdm 3.2.1.1**
 - 1.97.1 Available under license
- 1.98 generic-release 16 :1**
 - 1.98.1 Available under license
- 1.99 geoip 1.4.8**
 - 1.99.1 Available under license
- 1.100 gettext 0.18.1.1**
 - 1.100.1 Available under license
- 1.101 Gevent 1.0**
 - 1.101.1 Available under license
- 1.102 ghostscript 9.05 :3.fc16**
 - 1.102.1 Available under license
- 1.103 giflib 4.1.6 :3.1.el6**
 - 1.103.1 Available under license
- 1.104 glew 1.6.0**
 - 1.104.1 Available under license
- 1.105 glib 1.2.10**
 - 1.105.1 Available under license
- 1.106 glib 1.2.10**
 - 1.106.1 Available under license
- 1.107 glibmm24 2.30.0 :1**
 - 1.107.1 Available under license
- 1.108 gmp 4.3.2 :r0.4**
 - 1.108.1 Available under license
- 1.109 gnome-color-manager 3.2.4**
 - 1.109.1 Available under license
- 1.110 gnome-session 3.2.1**

- 1.110.1 Available under license
- 1.111 gnome-settings-daemon 3.2.3**
 - 1.111.1 Available under license
- 1.112 gnome-themes 2.32.0**
 - 1.112.1 Available under license
- 1.113 gnome-themes-standard 3.2.1**
 - 1.113.1 Available under license
- 1.114 gnome-vfs2 2.24.4**
 - 1.114.1 Available under license
- 1.115 gnutls 2.12.14**
 - 1.115.1 Available under license
- 1.116 gperftools 2.0**
 - 1.116.1 Available under license
- 1.117 gpgme 1.3.0**
 - 1.117.1 Available under license
- 1.118 greenlet 0.4 :1**
 - 1.118.1 Available under license
- 1.119 grep 2.9-3**
 - 1.119.1 Available under license
- 1.120 grubby 8.8**
 - 1.120.1 Available under license
- 1.121 gsettings-desktop-schemas 3.2.0**
 - 1.121.1 Available under license
- 1.122 gsm 1.0.13 :4.el6**
 - 1.122.1 Available under license
- 1.123 gstreamer-plugins-base 0.10.35 :ti.0624c6**
 - 1.123.1 Available under license
- 1.124 gstreamer-plugins-good 0.10.30 :ti.d40b86**
 - 1.124.1 Available under license
- 1.125 GTK+ 1.2.10**
 - 1.125.1 Available under license
- 1.126 gtk-xfce-engine 2.8.1**
 - 1.126.1 Available under license
- 1.127 gtk2-engines 2.20.2**
 - 1.127.1 Available under license
- 1.128 gunicorn 18.0**
 - 1.128.1 Available under license
- 1.129 gvfs 1.10.1**
 - 1.129.1 Available under license

1.130 gzip 1.4

1.130.1 Available under license

1.131 hicolor-icon-theme 0.12

1.131.1 Available under license

1.132 hostname 3.06

1.132.1 Available under license

1.133 ibus-anthy 1.2.7

1.133.1 Available under license

1.134 ibus-hangul 1.4.1

1.134.1 Available under license

1.135 ibus-m17n 1.3.3

1.135.1 Available under license

1.136 ibus-pinyin 1.4.0

1.136.1 Available under license

1.137 ilmbase 1.0.2

1.137.1 Available under license

1.138 im-chooser 1.5.2.2

1.138.1 Available under license

1.139 initscripts 9.34.4

1.139.1 Available under license

1.140 iok 2.1.0

1.140.1 Available under license

1.141 iproute 2.6.39

1.141.1 Available under license

1.142 iptables 1.4.12

1.142.1 Available under license

1.143 iptstate 2.2.2 :4.7.amzn1

1.143.1 Available under license

1.144 irda-utils 0.9.18

1.144.1 Available under license

1.145 irqbalance 1.0.3

1.145.1 Available under license

1.146 iso-codes 3.32

1.146.1 Available under license

1.147 isomd5sum 1.0.7

1.147.1 Available under license

1.148 itsdangerous 0.23

1.148.1 Available under license

1.149 jansson 2.1

- 1.149.1 Available under license
- 1.150 java-1.6.0-openjdk 1.6.0.0 :1.45.1.11.1.el6**
 - 1.150.1 Available under license
- 1.151 jline 0.9.94 :0.8.el6**
 - 1.151.1 Available under license
- 1.152 jpackage-utils 1.7.5 :14.6**
 - 1.152.1 Available under license
- 1.153 json-c 0.10 :r1.3**
 - 1.153.1 Available under license
- 1.154 json-glib 0.14.0**
 - 1.154.1 Available under license
- 1.155 jwhois 4.0**
 - 1.155.1 Available under license
- 1.156 kasumi 2.5**
 - 1.156.1 Available under license
- 1.157 keyutils 1.5.2**
 - 1.157.1 Available under license
- 1.158 klish 1.6.0**
 - 1.158.1 Available under license
- 1.159 lcms 1.19 :1.el6**
 - 1.159.1 Available under license
- 1.160 leafpad 0.8.18**
 - 1.160.1 Available under license
- 1.161 less 444**
 - 1.161.1 Available under license
- 1.162 lftp 4.3.8**
 - 1.162.1 Available under license
- 1.163 libarchive 2.8.5**
 - 1.163.1 Available under license
- 1.164 libart_lgpl 2.3.21**
 - 1.164.1 Available under license
- 1.165 libasyncns 0.8 :1.1.el6**
 - 1.165.1 Available under license
- 1.166 libatasmart 0.17 :3.el6**
 - 1.166.1 Available under license
- 1.167 libavc1394 0.5.3 :1.fc6**
 - 1.167.1 Available under license
- 1.168 libbonobo 2.32.1**
 - 1.168.1 Available under license

- 1.169 libbonoboui 2.24.5**
 - 1.169.1 Available under license
- 1.170 libcanberra 0.28**
 - 1.170.1 Available under license
- 1.171 libcap-ng 0.6.6**
 - 1.171.1 Available under license
- 1.172 libcdaudio 0.99.12p2**
 - 1.172.1 Available under license
- 1.173 libcgroupp 0.36.1 :6.el6**
 - 1.173.1 Available under license
- 1.174 libcroco 0.6.2 :5.el6**
 - 1.174.1 Available under license
- 1.175 libdaemon 0.14 :1.el6**
 - 1.175.1 Available under license
- 1.176 libdc1394 2.1.4**
 - 1.176.1 Available under license
- 1.177 libdmx 1.1.1**
 - 1.177.1 Available under license
- 1.178 libdvbpsi 0.1.7**
 - 1.178.1 Available under license
- 1.179 libdvdnv 4.1.4**
 - 1.179.1 Available under license
- 1.180 libdvdread 4.1.4 :0.3.svn1183.el6**
 - 1.180.1 Available under license
- 1.181 libedit 3.0**
 - 1.181.1 Available under license
- 1.182 libevent 2.0.10**
 - 1.182.1 Available under license
- 1.183 libevent 2.0.10**
 - 1.183.1 Available under license
- 1.184 libexif 0.6.21 :2.fc16**
 - 1.184.1 Available under license
- 1.185 libffi 3.0.10-3**
 - 1.185.1 Available under license
- 1.186 libfontenc 1.1.0**
 - 1.186.1 Available under license
- 1.187 libfprint 0.4.0**
 - 1.187.1 Available under license
- 1.188 libfreebob 1.0.11**

1.188.1 Available under license
1.189 libgcrypt 1.5.0
1.189.1 Available under license
1.190 libglade2 2.6.4 :1.2.267
1.190.1 Available under license
1.191 libgnome-keyring 3.2.0
1.191.1 Available under license
1.192 libgnomecanvas 2.30.3
1.192.1 Available under license
1.193 libgnomekbd 3.2.0
1.193.1 Available under license
1.194 libgpg-error 1.10
1.194.1 Available under license
1.195 libgusb 0.1.3
1.195.1 Available under license
1.196 libhangul 0.1.0
1.196.1 Available under license
1.197 libiec61883 1.2.0 :ddennedy 2009-01-04 15
1.197.1 Available under license
1.198 libjpeg-turbo 1.2.1 :1.el6
1.198.1 Notifications
1.198.2 Available under license
1.199 libldb 1.1.0
1.199.1 Available under license
1.200 libmad 0.15.1b
1.200.1 Available under license
1.201 libmash 0.1.0
1.201.1 Available under license
1.202 libmatchbox 1.9 :6.1.el6
1.202.1 Available under license
1.203 libmodman 2.0.1
1.203.1 Available under license
1.204 libmpcdec 1.2.6 :6.1.el6
1.204.1 Available under license
1.205 libnetfilter_contrack 1.0.2
1.205.1 Available under license
1.206 libnfnetlink 1.0.1
1.206.1 Available under license
1.207 libnfsidmap 0.24

1.207.1 Available under license
1.208 libnl 1.1
1.208.1 Available under license
1.209 libnotify 0.7.4
1.209.1 Available under license
1.210 libogg 1.3.0
1.210.1 Available under license
1.211 libpciaccess 0.12.1 :1.el6
1.211.1 Available under license
1.212 libpinyin 0.6.0
1.212.1 Available under license
1.213 libproxy 0.4.7
1.213.1 Available under license
1.214 libreport 2.0.10
1.214.1 Available under license
1.215 librsvg2 2.34.2
1.215.1 Available under license
1.216 libsamplerate 0.1.8
1.216.1 Available under license
1.217 libsemanage 2.1.2
1.217.1 Available under license
1.218 libsigc++20 2.2.10
1.218.1 Available under license
1.219 libSM 1.2.0
1.219.1 Available under license
1.220 libspectre 0.2.6
1.220.1 Available under license
1.221 libthai 0.1.14
1.221.1 Available under license
1.222 libtirpc 0.2.2
1.222.1 Available under license
1.223 libtool 2.4
1.223.1 Available under license
1.224 libunwind 0.99
1.224.1 Available under license
1.225 libusb1 1.0.9 :0.6
1.225.1 Available under license
1.226 libutempter 1.1.5
1.226.1 Available under license

- 1.227 libva 1.0.16**
 - 1.227.1 Available under license
- 1.228 libvisual 0.4.0 :175.12**
 - 1.228.1 Available under license
- 1.229 libvncserver 0.9.8.2**
 - 1.229.1 Available under license
- 1.230 libvorbis 1.3.3**
 - 1.230.1 Available under license
- 1.231 libvpx 1.0**
 - 1.231.1 Available under license
- 1.232 libwmf 0.2.8.4 :10.2**
 - 1.232.1 Available under license
- 1.233 libwsbm 1.1.0**
 - 1.233.1 Available under license
- 1.234 libxcb 1.7**
 - 1.234.1 Available under license
- 1.235 libxcomposite 0.4.3-2**
 - 1.235.1 Available under license
- 1.236 libXcursor 1.1.11**
 - 1.236.1 Available under license
- 1.237 libxdamage 1.1.3-2**
 - 1.237.1 Available under license
- 1.238 libXevie 1.0.3-2**
 - 1.238.1 Available under license
- 1.239 libxfce4ui 4.8.1**
 - 1.239.1 Available under license
- 1.240 libxfce4util 4.8.2**
 - 1.240.1 Available under license
- 1.241 libxfxes 5.0-4**
 - 1.241.1 Available under license
- 1.242 libXi 1.4.5**
 - 1.242.1 Available under license
- 1.243 libXinerama 1.1.1**
 - 1.243.1 Available under license
- 1.244 libxklavier 5.1**
 - 1.244.1 Available under license
- 1.245 libxml++ 2.34.2**
 - 1.245.1 Available under license
- 1.246 libXp 1.0.0 :8.1.e15**

1.246.1 Available under license
1.247 libXpm 3.5.8 :2.el6
1.247.1 Available under license
1.248 libxrender 0.9.6-1
1.248.1 Available under license
1.249 libXres 1.0.5
1.249.1 Available under license
1.250 libXScrnSaver 1.2.1
1.250.1 Available under license
1.251 libXt 1.1.1
1.251.1 Available under license
1.252 libxtst 1.2.0-4
1.252.1 Available under license
1.253 libXv 1.0.6
1.253.1 Available under license
1.254 libXvMC 1.0.6
1.254.1 Available under license
1.255 libXxf86dga 1.1.2
1.255.1 Available under license
1.256 libXxf86vm 1.1.1
1.256.1 Available under license
1.257 Linphone 3.6.99
1.257.1 Available under license
1.258 Linphone_buddylookup 3.6.99
1.258.1 Available under license
1.259 linux-atm 2.5.1
1.259.1 Available under license
1.260 lm_sensors 3.3.2
1.260.1 Available under license
1.261 lockdev 1.0.3
1.261.1 Available under license
1.262 logrotate 3.8.0
1.262.1 Available under license
1.263 lorax 16.4.9
1.263.1 Available under license
1.264 lua 5.1.4
1.264.1 Available under license
1.265 lvm2 2.02.86
1.265.1 Available under license

1.266 mailcap 2.1.38

1.266.1 Available under license

1.267 man-db 2.6.0.2

1.267.1 Available under license

1.268 markupsafe 0.18

1.268.1 Available under license

1.269 matchbox-window-manager 1.2

1.269.1 Available under license

1.270 mdadm 3.2.6

1.270.1 Available under license

1.271 mesa 7.11.2

1.271.1 Available under license

1.272 metacity 2.34.1

1.272.1 Available under license

1.273 mingetty 1.08

1.273.1 Available under license

1.274 mlocate 0.24

1.274.1 Available under license

1.275 mozilla.javascript-cisco.1.7.0.R3a.jar 1.7R3

1.275.1 Available under license

1.276 mpfr 3.0.0

1.276.1 Available under license

1.277 mtdev 1.1.0

1.277.1 Available under license

1.278 mtools 4.0.17

1.278.1 Available under license

1.279 mtr 0.82

1.279.1 Available under license

1.280 ncurses 5.9-2.20110716

1.280.1 Available under license

1.281 net-tools 1.60-126

1.281.1 Available under license

1.282 newt 0.52.14-1

1.282.1 Available under license

1.283 nfs-utils 1.2.5-8

1.283.1 Available under license

1.284 nginx 1.4.5

1.284.1 Available under license

1.285 nginx 1.4.4

- 1.285.1 Available under license
- 1.286 nginx 1.0.15-3**
 - 1.286.1 Available under license
- 1.287 notification-daemon 0.7.3-2**
 - 1.287.1 Available under license
- 1.288 notify-python 0.1.1-18**
 - 1.288.1 Available under license
- 1.289 npapi-vlc 2.0.6**
 - 1.289.1 Available under license
- 1.290 nss-myhostname 0.3-1**
 - 1.290.1 Available under license
- 1.291 ntfs-3g 2011.4.12-5**
 - 1.291.1 Available under license
- 1.292 opencc 0.3.0**
 - 1.292.1 Available under license
- 1.293 openssl 1.0.0**
 - 1.293.1 Notifications
 - 1.293.2 Available under license
- 1.294 openssl 1.0.1j :[15 Oct 2014]**
 - 1.294.1 Notifications
 - 1.294.2 Available under license
- 1.295 openssl 1.0.1i**
 - 1.295.1 Notifications
 - 1.295.2 Available under license
- 1.296 openssl 0.9.8y**
 - 1.296.1 Notifications
 - 1.296.2 Available under license
- 1.297 openswan 2.6.20**
 - 1.297.1 Available under license
- 1.298 orage 4.8.3**
 - 1.298.1 Available under license
- 1.299 ORBit2 2.14.19**
 - 1.299.1 Available under license
- 1.300 oRTP 0.22.1**
 - 1.300.1 Available under license
- 1.301 pam_pkcs11 0.6.2 :11.1.el6**
 - 1.301.1 Available under license
- 1.302 pam_radius 1.3.17**
 - 1.302.1 Available under license

- 1.303 pam_ssh_agent 0.9**
 - 1.303.1 Available under license
- 1.304 passwdqc 1.2.2**
 - 1.304.1 Available under license
- 1.305 patch 2.6.1**
 - 1.305.1 Available under license
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This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
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```

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1.4 acl 2.2.51 :2.fc16

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1.7 **alsa-lib_asever 1.0.26**

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```
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1.9 anthy 9100h

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1.10 antlr 3.2

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1.12 arj 3.10.22

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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.14 atk 2.2.0

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1.15 attr 2.4.46

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1.17 authconfig 6.1.16

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1.18 avahi 0.6.30

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```
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```

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```
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1.24 bridge-utils 1.5

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1.26 btrfs-progs 0.19

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*

minibz2
libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

*/

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The OpenGL Extension Wrangler Library

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Mesa 3-D graphics library
Version: 7.0

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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>
```

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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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.

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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1.30 cdparanoia 10.2 :5.1.el6

1.30.1 Available under license :

The cdparanoia command line tool versions 10.1 and later are distributed under the GNU General Public Licence v2.0 or, at your option, any later version of the GPL.

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Version 2, June 1991

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- 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

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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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```
<one line to give the program's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

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

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This is free software, and you are welcome to redistribute it
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```

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:

```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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Version 2.1, February 1999

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

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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.

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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.

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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

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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 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

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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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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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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
Ty Coon, President of Vice
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1.34 clutter 1.8.4

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Version 2.1, February 1999

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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.

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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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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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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.

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1.35 clutter-gtk 1.0.4

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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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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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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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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.

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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.

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1.36 cogl 1.8.2

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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.)

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

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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.

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1.42 coreutils 8.12

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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20

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

Re: [Cracklib-devel] cracklib license

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

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

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

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

UMR Information Technology Fax: (573) 341-4216

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

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

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

> Mike Frysinger

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

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

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

> libraries under

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

> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

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

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=20
=20Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

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

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

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

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

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

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

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

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

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> 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 (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])

by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>

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

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

> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license

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

>

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

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

> email

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

> original discussion, but something succinct and self contained

> would be

> ideal.

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

Happy now? :-)

-a

1.45 crda 1.1.1_2010.11.22 :1.e16

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This package was debianized by Luis Rodriguez <mcgrof@gmail.com> on Thu, 22 Jan 2009 16:00:00 +0100.

The crda packages was downloaded from <<http://wireless.kernel.org/download/crda/>>

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1.46 cronie-1.4.8 1.4.8

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- *
- * @(#)bitstring.h 8.1 (Berkeley) 7/19/93
- */

1.47 Crypto++ 5.6.1

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Leonard Janke - cast.cpp, seal.cpp

Steve Reid - cast.cpp

Phil Karn - des.cpp

Andrew M. Kuchling - md2.cpp, md4.cpp

Colin Plumb - md5.cpp

Seal Woods - rc6.cpp
Chris Morgan - rijndael.cpp
Paulo Baretto - rijndael.cpp, skipjack.cpp, square.cpp
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1.48 curl 7.21.7

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1.49 cyrus-sasl 2.1.23 :13.el6

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# Rob Earhart
#
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1.50 dbus 1.4.10

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#
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1.53 dconf 0.10.0

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1.54 desktop-file-utils 0.21

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1.55 device-mapper-multipath 0.4.9 :31.el6

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Current dialog upstream maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *.c *.h

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Files: debian/*

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1.58 dialog_scripts 1.1-20111020

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1.59 diffutils 3.2

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```

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```
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```

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1.64 dump 0.4b44

1.64.1 Available under license :

```
/*
 * Ported to Linux's Second Extended File System as part of the
 * dump and restore backup suit
 * Remy Card <card@Linux.EU.Org>, 1994-1997
 * Stelian Pop <stelian@popies.net>, 1999-2000
 * Stelian Pop <stelian@popies.net> - Alcôve <www.alcove.com>, 2000-2002
 */

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*/

1.65 e2fsprogs 1.41.14

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Theodore Ts'o
23-June-2007

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That's all there is to it!
his is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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/*

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*

* \$Id: dict.c,v 1.40.2.7 2000/11/13 01:36:44 kaz Exp \$

* \$Name: kazlib_1_20 \$

*/

/*

* \$Header\$

* \$Source\$

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*

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Gadi Oxman, August 1995

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```

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```
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under certain conditions; type `show c' for details.
```

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```
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```

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

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1.69 ethtool 3.1-1

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1.70 exo 0.6.2 :3

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```

```
<signature of Ty Coon>, 1 April 1989  
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Version 2, June 1991

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1.74 fedora-icon-theme 1.0.0 :11

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1.76 finger 0.17 :36.fc9

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1.78 firebreath 1.7

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1.83 fontconfig 2.8.0

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1.84 fontpackages 1.44

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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.

Gamin is a file and directory monitoring system defined to be a subset of the FAM (File Alteration Monitor) system.

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also partly

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Red Hat, Inc., hereby disclaims all copyright interest in the library `gamin' (a file alteration monitor) written by Daniel Veillard.

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

That's all there is to it!

```
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```

```
# install - install a program, script, or datafile  
# This comes from X11R5 (mit/util/scripts/install.sh).
```

```
#  
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```

```
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```

```
#  
# Calling this script install-sh is preferred over install.sh, to prevent  
# `make' implicit rules from creating a file called install from it  
# when there is no Makefile.
```

```
#  
# This script is compatible with the BSD install script, but was written  
# from scratch. It can only install one file at a time, a restriction  
# shared with many OS's install programs.
```

See the AUTHORS and the COPYING file for informations.

1.90 gawk 4.0.1

1.90.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Our method of protecting your rights has two steps: (1) copyright

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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.

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Thus, it is not the intent of this section to claim rights or contest

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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) 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.

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Appendix: How to Apply These Terms to Your New Libraries

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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!

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Version 3, 29 June 2007

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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.

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1. Source Code.

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.

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1.92 gconf2 3.2.3

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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.

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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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Thus, it is not the intent of this section to claim rights or contest

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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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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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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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.>  
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```

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```
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```

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

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1.93 gd 2.0.35

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1.94 gdb 7.3.50

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Version 3, 29 June 2007

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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.

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

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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

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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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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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- 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.

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

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

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- 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.

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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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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.

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<one line to give the library's name and a brief idea of what it does.>

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

That's all there is to it!

1.95 gdbm 1.8.3

1.95.1 Available under license :

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Version 2, June 1991

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

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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.>  
Copyright (C) 19yy <name of author>
```

```
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the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

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

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

```
Gnomovision version 69, Copyright (C) 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
```

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proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
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Public License instead of this License.

1.96 gdk-pixbuf2 2.24.1

1.96.1 Available under license :

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Version 2, June 1991

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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.]

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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

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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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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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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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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.

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1.100 gettext 0.18.1.1

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There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution.

If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

<http://www.freetype.org>

--- end of FTL.TXT ---

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There are several ways to build the FreeType library, depending on your system and the level of customization you need. Here is a short overview of the documentation available:

I. Normal installation and upgrades

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1. Unix Systems (including Mac OS X, Cygwin, and MSys on Windows)

Please read *both* 'UPGRADE.UNIX' and 'INSTALL.UNIX' to install or upgrade FreeType 2 on a Unix system. Note that you *need* GNU Make for automatic compilation, since other make tools won't work (this includes BSD Make).

GNU Make VERSION 3.80 OR NEWER IS NEEDED!

2. On VMS with the 'mms' build tool

See 'INSTALL.VMS' for installation instructions on this platform.

3. Other systems using GNU Make

On non-Unix platforms, it is possible to build the library using GNU Make utility. Note that *NO OTHER MAKE TOOL WILL WORK*!^[1] This methods supports several compilers on Windows, OS/2, and BeOS, including MinGW, Visual C++, Borland C++, and more.

Instructions are provided in the file 'INSTALL.GNU'.

4. With an IDE Project File (e.g., for Visual Studio or CodeWarrior)

We provide a small number of 'project files' for various IDEs to automatically build the library as well. Note that these files are not supported and only sporadically maintained by FreeType developers, so don't expect them to work in each release.

To find them, have a look at the content of the 'builds/<system>' directory, where <system> stands for your OS or environment.

5. From you own IDE, or own Makefiles

If you want to create your own project file, follow the instructions given in the 'INSTALL.ANY' document of this directory.

II. Custom builds of the library

=====

Customizing the compilation of FreeType is easy, and allows you to select only the components of the font engine that you really need. For more details read the file 'CUSTOMIZE'.

[1] make++, a make tool written in Perl, has sufficient support of GNU make extensions to build FreeType. See

<http://makepp.sourceforge.net>

for more information; you need version 1.19 or newer, and you must pass option '--norc-substitution'.

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--- end of INSTALL ---

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1.103 giflib 4.1.6 :3.1.e16

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1.104 glew 1.6.0

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Mesa 3-D graphics library
Version: 7.0

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1.105 glib 1.2.10

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

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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.

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

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1.109 gnome-color-manager 3.2.4

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1.110 gnome-session 3.2.1

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1.111 gnome-settings-daemon 3.2.3

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Version 2.1, February 1999

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

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

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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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1.113 gnome-themes-standard 3.2.1

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

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

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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 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:

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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.]

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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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"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.

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

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Version 2.1, February 1999

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1.116 gperftools 2.0

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```

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1.118 greenlet 0.4 :1

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1.119 grep 2.9-3

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Version 3, 29 June 2007

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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!

/* GStreamer

* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>

*

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GStreamer is developed under the terms of the LGPL (see LICENSE file for details). Some of our plugins however rely on libraries which are available under other licenses. This means that if you are using an application which has a non-GPL compatible license, for instance a closed-source application with GStreamer you have to make sure not to use GPL linked or derived plugins. When using GPL linked plugins GStreamer is for all practical reasons under the GPL itself.

The plugins which use a GPL library are as follows:

a52dec	liba52	(http://liba52.sourceforge.net/)
aasink	aalib	(http://sourceforge.net/projects/aa-project/)
cdparanoia	libcdparanoia	(http://www.xiph.org/paranoia/)
dtsdec	libdts	(http://www.videolan.org/dtsdec.html)
dvdnavsrc	libdvdnav	(http://dvd.sourceforge.net/)

dxr3 (<http://dxr3.sourceforge.net/>)
 icecastsend libshout (<http://www.icecast.org>)
 mad libmad (<http://www.mars.org/home/rob/proj/mpeg/>)
 mpeg2dec libmpeg2 (<http://libmpeg2.sourceforge.net/>)
 mpeg2enc libmpeg2enc (<http://mjpeg.sourceforge.net/>)
 mplex libmplex (<http://mjpeg.sourceforge.net/>)
 siddec libsidplay 1.36 (<http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/>,
<http://sourceforge.net/projects/sidplay2/>)
 trm libmusicbrainz (<http://www.musicbrainz.org/>)
 xine libxine (<http://xinehq.de/>)
 xvid libxvidcore (<http://www.xvid.org/>)

Plugins derived from GPL code are as follows:

dvdreadsrc libdvdread (<http://www.dtek.chalmers.se/groups/dvd/>)
 jack libjack (<http://jackit.sourceforge.net/>)
 Note libjack is LGPL, but plugin is GPL.
 monoscope None (Algorithm by Ralph Loader, Joerg Walter,
 Richard Boulton, and Andy Lo A Foe)
 rtjpeg None (Erik Walthinsen's algorithm)
 rtp None (<http://www.linphone.org/ortp/>)
 synaesthesia (<http://www.logarithmic.net/pfh/synaesthesia>)
 system_encode None (Algorithm by Chrisoph Moar, Wim Tayman's and
 Erik Walthinsen)
 vbidec None (Algorithm by Billy Biggs, Doug Bell,
 Erik Walthinsen and David I. Lehn)

Plugins which use a LGPL library are as follows:

alsa alsa (<http://alsa-project.org/>)
 artsdsink aRts (<http://arts-project.org/>)
 cacasink libcaca (<http://sam.zoy.org/projects/libcaca/>)
 colorspace libcolorspace
 dvdec libdv (<http://libdv.sourceforge.net/>)
 esdmon,esdsink libesd (<ftp.gnome.org/pub/GNOME/stable/sources/esound/>)
 faac libfaac (<http://www.audiocoding.com/modules/mydownloads/>)
 fameenc libfame (<http://fame.sourceforge.net/>)
 ffmpeg ffmpeg (<http://ffmpeg.sourceforge.net/>)
 gdkpixbuf GTK+ (<http://www.gtk.org/>)
 gnomevfs gnome-vfs (<ftp.gnome.org/pub/GNOME/stable/sources/gnome-vfs/>)
 gst_arts aRts (<http://arts-project.org/>)
 gst1394 libraw1394 (<http://www.linux1394.org/>)
 gstaf libaudiofile (<http://www.68k.org/~michael/audiofile/>)
 gstsfile libsndfile (<http://www.mega-nerd.com/libsndfile/>)
 hermescolorspace Hermes (<http://www.clanlib.org/hermes/>)
 kio KDE (<http://www.kde.org/>)
 ladspa (<http://www.ladspa.org/>)
 lame libmp3lame (<http://lame.sourceforge.net/>)

libvisual libvisual (<http://libvisual.sourceforge.net/>)
 matroska (<http://www.matroska.org/>)
 mikmod libmikmod (<http://mikmod.raphnet.net/>)
 ossaudio (<http://www.opensound.com/>)
 qcamsrc
 rfbenc librbf
 sdlvideosink libsdl (<http://www.libsdl.org/>)
 shout2send libshout2 (<http://www.icecast.org>)
 smoothwave
 swfdec (<http://swfdec.sourceforge.net/>)
 tarkin (<http://svn.xiph.org/trunk/tarkin/>)
 textoverlay pango (<http://www.pango.org/>)
 dirac (<http://www.bbc.co.uk/rd/projects/dirac/>)
 effectv (Our ports was relicensed)(<http://effectv.sourceforge.net/>)
 musepack (<http://www.musepack.net/>)

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)
 vorbis libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)
 gsttheora libtheora (<http://www.theora.org/>)
 speex (<http://www.speex.org/>)
 flac libFLAC (<http://flac.sourceforge.net/>)

Plugins based on libraries with other free licenses:

ximagesink libXv
 xvimagesink libXv
 - license: MIT X11 / X Consortium license

 gsm libgsm
 - license MIT license <http://kbs.cs.tu-berlin.de/~jutta/toast.html>

 festival (<http://www.cstr.ed.ac.uk/projects/festival/>)
 - license: <http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml>

 jpeg (<http://www.ijg.org/>)
 - license: IJG license

 nas (<http://radscan.com/nas.html>)
 - license: NAS license

 snapshot libpng (<http://www.libpng.org/pub/png/>)
 - license: PNG license

 mngdec/mngenc libmng (<http://gjuyn.xs4all.nl/libmng>)
 - license PNG license

Plugins using non-free libraries:

divxdec, divxenc (<http://www.divx.com/>)
osxaudio (<http://www.apple.com/macosx/>)
sunaudiosink (<http://www.sun.com/>)

Unsure:

faad libfaad (<http://www.audiocoding.com/>)

faad's license depends on its major version :

- for FAAD1 : it is LGPL
- for FAAD2 : it is GPL

look at these pages for more information on licenses :

<http://www.audiocoding.com/modules/wiki/?page=FAAD2>

<http://www.audiocoding.com/modules/wiki/?page=FAAC>

by default, GStreamer faad plugin would compile against FAAD2 if available.
it falls back to FAAD1 if not.

1.124 gstreamer-plugins-good 0.10.30 :ti.d40b86

1.124.1 Available under license :

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Version 2.1, February 1999

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Ty Coon, President of Vice

That's all there is to it!

```
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```

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 */
```

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libraries change their licensing from version-to-version and some of the libraries listed here as LGPL were under the GPL license in older releases. Distributions which include GStreamer are responsible for ensuring that plugins are used in accordance with licensing terms and other laws.

GStreamer is developed under the terms of the LGPL (see LICENSE file for details). Some of our plugins however rely on libraries which are available under other licenses. This means that if you are using an application which has a non-GPL compatible license, for instance a closed-source application with GStreamer you have to make sure not to use GPL linked or derived plugins. When using GPL linked plugins GStreamer is for all practical reasons under the GPL itself.

The plugins which use a GPL library are as follows:

a52dec	liba52	(http://liba52.sourceforge.net/)
aasink	aalib	(http://sourceforge.net/projects/aa-project/)
cdparanoia	libcdparanoia	(http://www.xiph.org/paranoia/)
dtsdec	libdts	(http://www.videolan.org/dtsdec.html)
dvdnavsrc	libdvdnav	(http://dvd.sourceforge.net/)
dxr3		(http://dxr3.sourceforge.net/)
icecastsend	libshout	(http://www.icecast.org)
mad	libmad	(http://www.mars.org/home/rob/proj/mpeg/)
mpeg2dec	libmpeg2	(http://libmpeg2.sourceforge.net/)
mpeg2enc	libmpeg2enc	(http://mjpeg.sourceforge.net/)
mplex	libmplex	(http://mjpeg.sourceforge.net/)
siddec	libsidplay 1.36	(http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/ , http://sourceforge.net/projects/sidplay2/)
trm	libmusicbrainz	(http://www.musicbrainz.org/)
xine	libxine	(http://xinehq.de/)
xvid	libxvidcore	(http://www.xvid.org/)

Plugins derived from GPL code are as follows:

dvdreadsrc	libdvdread	(http://www.dtek.chalmers.se/groups/dvd/)
jack	libjack	(http://jackit.sourceforge.net/) Note libjack is LGPL, but plugin is GPL.
monoscope	None	(Algorithm by Ralph Loader, Joerg Walter, Richard Boulton, and Andy Lo A Foe)
rtjpeg	None	(Erik Walthinsen's algorithm)
rtp	None	(http://www.linphone.org/ortp/)
synaesthesia		(http://www.logarithmic.net/pfh/synaesthesia)
system_encode	None	(Algorithm by Chrisoph Moar, Wim Tayman's and Erik Walthinsen)
vbidec	None	(Algorithm by Billy Biggs, Doug Bell, Erik Walthinsen and David I. Lehn)

Plugins which use a LGPL library are as follows:

alsasink alsasink (<http://alsa-project.org/>)
 artsdsink aRts (<http://arts-project.org/>)
 cacasink libcaca (<http://sam.zoy.org/projects/libcaca/>)
 colorspace libcolorspace
 dvdec libdv (<http://libdv.sourceforge.net/>)
 esdmon,esdsink libesd (<ftp.gnome.org/pub/GNOME/stable/sources/esound/>)
 faac libfaac (<http://www.audiocoding.com/modules/mydownloads/>)
 fameenc libfame (<http://fame.sourceforge.net/>)
 ffmpeg ffmpeg (<http://ffmpeg.sourceforge.net/>)
 gdkpixbuf GTK+ (<http://www.gtk.org/>)
 gnomevfs gnome-vfs (<ftp.gnome.org/pub/GNOME/stable/sources/gnome-vfs/>)
 gst_arts aRts (<http://arts-project.org/>)
 gst1394 libraw1394 (<http://www.linux1394.org/>)
 gstaf libaudiofile (<http://www.68k.org/~michael/audiofile/>)
 gstsfile libsndfile (<http://www.mega-nerd.com/libsndfile/>)
 hermescolorspace Hermes (<http://www.clanlib.org/hermes/>)
 kio KDE (<http://www.kde.org/>)
 ladspa (<http://www.ladspa.org/>)
 lame libmp3lame (<http://lame.sourceforge.net/>)
 libvisual libvisual (<http://libvisual.sourceforge.net/>)
 matroska (<http://www.matroska.org/>)
 mikmod libmikmod (<http://mikmod.raphnet.net/>)
 ossaudio (<http://www.opensound.com/>)
 qcamsrc
 rfbenc librfb
 sdlvideosink libSDL (<http://www.libsdl.org/>)
 shout2send libshout2 (<http://www.icecast.org>)
 smoothwave
 swfdec (<http://swfdec.sourceforge.net/>)
 tarkin (<http://svn.xiph.org/trunk/tarkin/>)
 textoverlay pango (<http://www.pango.org/>)
 dirac (<http://www.bbc.co.uk/rd/projects/dirac/>)
 effectv (Our ports was relicensed)(<http://effectv.sourceforge.net/>)
 musepack (<http://www.musepack.net/>)

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)
 vorbis libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)
 gsttheora libtheora (<http://www.theora.org/>)
 speex (<http://www.speex.org/>)
 flac libFLAC (<http://flac.sourceforge.net/>)

Plugins based on libraries with other free licenses:

ximagesink libXv
 xvimagesink libXv

- license: MIT X11 / X Consortium license

gsm libgsm

- license MIT license <http://kbs.cs.tu-berlin.de/~jutta/toast.html>

festival (<http://www.cstr.ed.ac.uk/projects/festival/>)

- license: <http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml>

jpeg (<http://www.ijg.org/>)

- license: IJG license

nas (<http://radscan.com/nas.html>)

- license: NAS license

snapshot libpng (<http://www.libpng.org/pub/png/>)

- license: PNG license

mngdec/mngenc libmng (<http://gjuyn.xs4all.nl/libmng>)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (<http://www.divx.com/>)

osxaudio (<http://www.apple.com/macosx/>)

sunaudiosink (<http://www.sun.com/>)

Unsure:

faad libfaad (<http://www.audiocoding.com/>)

faad's license depends on its major version :

- for FAAD1 : it is LGPL

- for FAAD2 : it is GPL

look at these pages for more information on licenses :

<http://www.audiocoding.com/modules/wiki/?page=FAAD2>

<http://www.audiocoding.com/modules/wiki/?page=FAAC>

by default, GStreamer faad plugin would compile against FAAD2 if available.

it falls back to FAAD1 if not.

1.125 GTK+ 1.2.10

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Version 2.1, February 1999

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1.126 gtk-xfce-engine 2.8.1

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1.127 gtk2-engines 2.20.2

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doc/sitemap_gen.py

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util/unlink.py

backport from python3 Lib/test/support.py

1.129 gvfs 1.10.1

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```

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```
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```

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```
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```

```
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```

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1.132 hostname 3.06

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1.133 ibus-anthy 1.2.7

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```

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1.134 ibus-hangul 1.4.1

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1.135 ibus-m17n 1.3.3

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1.136 ibus-pinyin 1.4.0

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```

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1.137 ilmbase 1.0.2

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1.138 im-chooser 1.5.2.2

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```

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1.139 initscripts 9.34.4

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1.140 iok 2.1.0

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1.145 irqbalance 1.0.3

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1.147 isomd5sum 1.0.7

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.148 itsdangerous 0.23

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1.151 jline 0.9.94 :0.8.el6

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1.152 jpackage-utils 1.7.5 :14.6

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1.153 json-c 0.10 :r1.3

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1.154 json-glib 0.14.0

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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.
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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.

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

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

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

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

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

6. As an exception to the Sections above, you may also 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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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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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  
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(at your option) any later version.
```

```
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```

```
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Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
```

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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.

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```
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

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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

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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

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<one line to give the library's name and a brief idea of what it does.>

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

That's all there is to it!

1.158 klish 1.6.0

1.158.1 Available under license :

Overview

This package contains code which is copyrighted to multiple sources.

3Com Corporation

The initial public release of this software was developed by Graeme McKerrell whilst in the employment of 3Com Europe Ltd.

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The 0.6-0.7 releases of this software was developed by Graeme McKerrell whilst in the employment of Newport Networks Ltd.

As well as enhancing the existing code the new modules were developed.

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/*

* regcomp and regexec -- regsub and regerror are elsewhere

*

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*

* Beware that some of this code is subtly aware of the way operator
* precedence is structured in regular expressions. Serious changes in
* regular-expression syntax might require a total rethink.

*

* *** NOTE: this code has been altered slightly for use in Tcl. ***

* Slightly modified by David MacKenzie to undo most of the changes for TCL.

* Added regexec2 with notbol parameter. -- 4/19/99 Mark Nudelman

*/

1.162 Iftp 4.3.8

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Version 3, 29 June 2007

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1.163 libarchive 2.8.5

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1.164 libart_lgpl 2.3.21

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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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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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For an executable, the required form of the "work that uses the

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1.171 libcap-ng 0.6.6

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/*

* Program: RFC-822 routines (originally from SMTP)

*

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*

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

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/* Skeleton implementation for Bison's Yacc-like parsers in C
```

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/* As a special exception, you may create a larger work that contains
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/* C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser. */

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*

* Author: Vivek Goyal <vgoyal@redhat.com>

*

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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

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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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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

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1.175 libdaemon 0.14 :1.e16

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Version 2.1, February 1999

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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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"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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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

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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.

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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.)

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1.176 libdc1394 2.1.4

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1.178 libdvbpsi 0.1.7

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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.

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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

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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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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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1.185 libffi 3.0.10-3

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1.186 libfontenc 1.1.0

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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.

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```
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```

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

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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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1.190 libglade2 2.6.4 :1.2.267

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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.

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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.

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1.191 libgnome-keyring 3.2.0

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```

```
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- 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:

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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.>
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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:

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

That's all there is to it!

1.192 libgnomecanvas 2.30.3

1.192.1 Available under license :

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Version 2, June 1991

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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.]

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Our method of protecting your rights has two steps: (1) copyright

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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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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.

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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.

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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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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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!

1.193 libgnomekbd 3.2.0

1.193.1 Available under license :

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Version 2, June 1991

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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.]

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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.

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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:

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- 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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- 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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1.194 libgpg-error 1.10

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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.

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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.

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

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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.

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

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

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

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

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

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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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

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

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

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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.

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a

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

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This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,
and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

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

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

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

OVERVIEW

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

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

compressor.)

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

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

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

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

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

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The Unix configuration script "configure" was produced with GNU Autoconf.

It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

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

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REFERENCES

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

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

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

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1.

Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

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

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

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

A PostScript version of the JFIF document is available at

<http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at

<http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

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

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org.

The most recent released version can always be found there in directory "files". This particular version will be archived as

<http://www.ijg.org/files/jpegsr.v8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.

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FILE FORMAT WARS

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The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR", which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

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Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

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1.199 libldb 1.1.0

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1.200 libmad 0.15.1b

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```

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Ty Coon, President of Vice
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1.201 libmash 0.1.0

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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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1.204 libmpcdec 1.2.6 :6.1.e16

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1.207 libnfsidmap 0.24

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1.208 libnl 1.1

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

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1.210 libogg 1.3.0

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1.212 libpinyin 0.6.0

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```
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```

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```
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```

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

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1.215 librsvg2 2.34.2

1.215.1 Available under license :

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```
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```

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1.216 libsamplerate 0.1.8

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1.217 libsemanage 2.1.2

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Version 2.1, February 1999

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1.221 libthai 0.1.14

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1.223 libtool 2.4

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1.224 libunwind 0.99

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1.225 libusb1 1.0.9 :0.6

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

- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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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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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.

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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)

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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.

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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.

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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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- 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.

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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.

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.

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1.240 libxfce4util 4.8.2

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Preamble

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derivative of the original library, and the ordinary General Public License treats it as such.

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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:

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- 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.

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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.

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

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1.241 libxfixes 5.0-4

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1.246 libXp 1.0.0 :8.1.e15

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1.247 libXpm 3.5.8 :2.el6

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1.248 libxrender 0.9.6-1

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1.249 libXres 1.0.5

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1.250 libXScrnSaver 1.2.1

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1.259 linux-atm 2.5.1

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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.>

Copyright (C) 19yy <name of author>

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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
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This is free software, and you are welcome to redistribute it
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```

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```
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.

1.260 Im_sensors 3.3.2

1.260.1 Available under license :

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Version 2, June 1991

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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.)

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```
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```

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

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

```
Gnomovision version 69, Copyright (C) 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

Ty Coon, President of Vice

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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

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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.

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1.263 Iorax 16.4.9

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1.264 lua 5.1.4

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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1.266 mailcap 2.1.38

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Tom Callaway, Fedora Legal, Red Hat

Thu Sep 17, 2009

1.267 man-db 2.6.0.2

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```

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<signature of Ty Coon>, 1 April 1989
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1.271 mesa 7.11.2

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1.272 metacity 2.34.1

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1.273 mingetty 1.08

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1.274 mlocate 0.24

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1.277 mtdev 1.1.0

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1.278 mtools 4.0.17

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1.279 mtr 0.82

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1.280 ncurses 5.9-2.20110716

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Calling this script install-sh is preferred over install.sh, to prevent `make` implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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1.281 net-tools 1.60-126

1.281.1 Available under license :

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Version 2, June 1991

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

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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) 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.
```

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
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```

```
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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

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1.282 newt 0.52.14-1

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Version 2, June 1991

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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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(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.

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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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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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1.289 npapi-vlc 2.0.6

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*

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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.

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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 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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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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1.290 nss-myhostname 0.3-1

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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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1.295 openssl 1.0.1i

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1.296 openssl 0.9.8y

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1.297 openswan 2.6.20

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/*

* The rest of the code is derived from MD5C.C by RSADSI. Minor cosmetic

* changes to accomodate it in the kernel by ji.

* Minor changes to make 64 bit clean by Peter Onion (i.e. using u_int*_t).

*/

/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm

*/

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*/

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```
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1.300 oRTP 0.22.1

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Upstream Authors: Simon Morlat, Florian Wintertein, Aymeric Moizard, Sharath Udupa.

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1.302 pam_radius 1.3.17

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```
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.311 pinentry 0.8.1

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1.313 pixman 0.29.2

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* OF THIS SOFTWARE.
*/
/*
* Matrix interfaces
*/

#ifdef HAVE_CONFIG_H
#include <config.h>
#endif

#include <math.h>
#include <string.h>
#include "pixman-private.h"
```

```

#define F(x)  pixman_int_to_fixed (x)

static force_inline int
count_leading_zeros (uint32_t x)
{
#ifdef __GNUC__
    return __builtin_clz (x);
#else
    int n = 0;
    while (x)
    {
        n++;
        x >>= 1;
    }
    return 32 - n;
#endif
}

/*
 * Large signed/unsigned integer division with rounding for the platforms with
 * only 64-bit integer data type supported (no 128-bit data type).
 *
 * Arguments:
 *   hi, lo - high and low 64-bit parts of the dividend
 *   div   - 48-bit divisor
 *
 * Returns: lowest 64 bits of the result as a return value and highest 64
 *          bits of the result to "result_hi" pointer
 */

/* grade-school unsigned division (128-bit by 48-bit) with rounding to nearest */
static force_inline uint64_t
rounded_udiv_128_by_48 (uint64_t hi,
                       uint64_t lo,
                       uint64_t div,
                       uint64_t *result_hi)
{
    uint64_t tmp, remainder, result_lo;
    assert(div < ((uint64_t)1 << 48));

    remainder = hi % div;
    *result_hi = hi / div;

    tmp = (remainder << 16) + (lo >> 48);
    result_lo = tmp / div;
    remainder = tmp % div;

    tmp = (remainder << 16) + ((lo >> 32) & 0xFFFF);

```

```

result_lo = (result_lo << 16) + (tmp / div);
remainder = tmp % div;

tmp = (remainder << 16) + ((lo >> 16) & 0xFFFF);
result_lo = (result_lo << 16) + (tmp / div);
remainder = tmp % div;

tmp = (remainder << 16) + (lo & 0xFFFF);
result_lo = (result_lo << 16) + (tmp / div);
remainder = tmp % div;

/* round to nearest */
if (remainder * 2 >= div && ++result_lo == 0)
    *result_hi += 1;

return result_lo;
}

/* signed division (128-bit by 49-bit) with rounding to nearest */
static inline int64_t
rounded_sdiv_128_by_49 (int64_t hi,
                       uint64_t lo,
                       int64_t div,
                       int64_t *signed_result_hi)
{
    uint64_t result_lo, result_hi;
    int sign = 0;
    if (div < 0)
    {
        div = -div;
        sign ^= 1;
    }
    if (hi < 0)
    {
        if (lo != 0)
            hi++;
        hi = -hi;
        lo = -lo;
        sign ^= 1;
    }
    result_lo = rounded_udiv_128_by_48 (hi, lo, div, &result_hi);
    if (sign)
    {
        if (result_lo != 0)
            result_hi++;
        result_hi = -result_hi;
        result_lo = -result_lo;
    }
}

```

```

    if (signed_result_hi)
    {
        *signed_result_hi = result_hi;
    }
    return result_lo;
}

/*
 * Multiply 64.16 fixed point value by (2^scalebits) and convert
 * to 128-bit integer.
 */
static force_inline void
fixed_64_16_to_int128 (int64_t hi,
                      int64_t lo,
                      int64_t *rhi,
                      int64_t *rlo,
                      int    scalebits)
{
    /* separate integer and fractional parts */
    hi += lo >> 16;
    lo &= 0xFFFF;

    if (scalebits <= 0)
    {
        *rlo = hi >> (-scalebits);
        *rhi = *rlo >> 63;
    }
    else
    {
        *rhi = hi >> (64 - scalebits);
        *rlo = (uint64_t)hi << scalebits;
        if (scalebits < 16)
            *rlo += lo >> (16 - scalebits);
        else
            *rlo += lo << (scalebits - 16);
    }
}

/*
 * Convert 112.16 fixed point value to 48.16 with clamping for the out
 * of range values.
 */
static force_inline pixman_fixed_48_16_t
fixed_112_16_to_fixed_48_16 (int64_t hi, int64_t lo, pixman_bool_t *clampflag)
{
    if ((lo >> 63) != hi)
    {
        *clampflag = TRUE;
    }
}

```

```

    return hi >= 0 ? INT64_MAX : INT64_MIN;
}
else
{
    return lo;
}
}

/*
 * Transform a point with 31.16 fixed point coordinates from the destination
 * space to a point with 48.16 fixed point coordinates in the source space.
 * No overflows are possible for affine transformations and the results are
 * accurate including the least significant bit. Projective transformations
 * may overflow, in this case the results are just clamped to return maximum
 * or minimum 48.16 values (so that the caller can at least handle the NONE
 * and PAD repeats correctly) and the return value is FALSE to indicate that
 * such clamping has happened.
 */
PIXMAN_EXPORT pixman_bool_t
pixman_transform_point_31_16 (const pixman_transform_t *t,
                             const pixman_vector_48_16_t *v,
                             pixman_vector_48_16_t *result)
{
    pixman_bool_t clampflag = FALSE;
    int i;
    int64_t tmp[3][2], divint;
    uint16_t divfrac;

    /* input vector values must have no more than 31 bits (including sign)
     * in the integer part */
    assert (v->v[0] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[0] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[1] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[1] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[2] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[2] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));

    for (i = 0; i < 3; i++)
    {
        tmp[i][0] = (int64_t)t->matrix[i][0] * (v->v[0] >> 16);
        tmp[i][1] = (int64_t)t->matrix[i][0] * (v->v[0] & 0xFFFF);
        tmp[i][0] += (int64_t)t->matrix[i][1] * (v->v[1] >> 16);
        tmp[i][1] += (int64_t)t->matrix[i][1] * (v->v[1] & 0xFFFF);
        tmp[i][0] += (int64_t)t->matrix[i][2] * (v->v[2] >> 16);
        tmp[i][1] += (int64_t)t->matrix[i][2] * (v->v[2] & 0xFFFF);
    }

    /*

```



```

* separate 64-bit integer and 16-bit fractional parts for the divisor,
* which is also scaled by 65536 after fixed point multiplication.
*/
divint = tmp[2][0] + (tmp[2][1] >> 16);
divfrac = tmp[2][1] & 0xFFFF;

if (divint == pixman_fixed_1 && divfrac == 0)
{
    /*
     * this is a simple affine transformation
     */
    result->v[0] = tmp[0][0] + ((tmp[0][1] + 0x8000) >> 16);
    result->v[1] = tmp[1][0] + ((tmp[1][1] + 0x8000) >> 16);
    result->v[2] = pixman_fixed_1;
}
else if (divint == 0 && divfrac == 0)
{
    /*
     * handle zero divisor (if the values are non-zero, set the
     * results to maximum positive or minimum negative)
     */
    clampflag = TRUE;

    result->v[0] = tmp[0][0] + ((tmp[0][1] + 0x8000) >> 16);
    result->v[1] = tmp[1][0] + ((tmp[1][1] + 0x8000) >> 16);

    if (result->v[0] > 0)
        result->v[0] = INT64_MAX;
    else if (result->v[0] < 0)
        result->v[0] = INT64_MIN;

    if (result->v[1] > 0)
        result->v[1] = INT64_MAX;
    else if (result->v[1] < 0)
        result->v[1] = INT64_MIN;
}
else
{
    /*
     * projective transformation, analyze the top 32 bits of the divisor
     */
    int32_t hi32divbits = divint >> 32;
    if (hi32divbits < 0)
        hi32divbits = ~hi32divbits;

    if (hi32divbits == 0)
    {
        /* the divisor is small, we can actually keep all the bits */

```

```

int64_t hi, rhi, lo, rlo;
int64_t div = (divint << 16) + divfrac;

fixed_64_16_to_int128 (tmp[0][0], tmp[0][1], &hi, &lo, 32);
rlo = rounded_sdiv_128_by_49 (hi, lo, div, &rhi);
result->v[0] = fixed_112_16_to_fixed_48_16 (rhi, rlo, &clampflag);

fixed_64_16_to_int128 (tmp[1][0], tmp[1][1], &hi, &lo, 32);
rlo = rounded_sdiv_128_by_49 (hi, lo, div, &rhi);
result->v[1] = fixed_112_16_to_fixed_48_16 (rhi, rlo, &clampflag);
}
else
{
    /* the divisor needs to be reduced to 48 bits */
    int64_t hi, rhi, lo, rlo, div;
    int shift = 32 - count_leading_zeros (hi32divbits);
    fixed_64_16_to_int128 (divint, divfrac, &hi, &div, 16 - shift);

    fixed_64_16_to_int128 (tmp[0][0], tmp[0][1], &hi, &lo, 32 - shift);
    rlo = rounded_sdiv_128_by_49 (hi, lo, div, &rhi);
    result->v[0] = fixed_112_16_to_fixed_48_16 (rhi, rlo, &clampflag);

    fixed_64_16_to_int128 (tmp[1][0], tmp[1][1], &hi, &lo, 32 - shift);
    rlo = rounded_sdiv_128_by_49 (hi, lo, div, &rhi);
    result->v[1] = fixed_112_16_to_fixed_48_16 (rhi, rlo, &clampflag);
}
}
result->v[2] = pixman_fixed_1;
return !clampflag;
}

```

PIXMAN_EXPORT void

```

pixman_transform_point_31_16_affine (const pixman_transform_t *t,
                                     const pixman_vector_48_16_t *v,
                                     pixman_vector_48_16_t *result)

```

```

{
    int64_t hi0, lo0, hi1, lo1;

    /* input vector values must have no more than 31 bits (including sign)
     * in the integer part */
    assert (v->v[0] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[0] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[1] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[1] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));

    hi0 = (int64_t)t->matrix[0][0] * (v->v[0] >> 16);
    lo0 = (int64_t)t->matrix[0][0] * (v->v[0] & 0xFFFF);
    hi0 += (int64_t)t->matrix[0][1] * (v->v[1] >> 16);

```

```

lo0 += (int64_t)t->matrix[0][1] * (v->v[1] & 0xFFFF);
hi0 += (int64_t)t->matrix[0][2];

hi1 = (int64_t)t->matrix[1][0] * (v->v[0] >> 16);
lo1 = (int64_t)t->matrix[1][0] * (v->v[0] & 0xFFFF);
hi1 += (int64_t)t->matrix[1][1] * (v->v[1] >> 16);
lo1 += (int64_t)t->matrix[1][1] * (v->v[1] & 0xFFFF);
hi1 += (int64_t)t->matrix[1][2];

result->v[0] = hi0 + ((lo0 + 0x8000) >> 16);
result->v[1] = hi1 + ((lo1 + 0x8000) >> 16);
result->v[2] = pixman_fixed_1;
}

PIXMAN_EXPORT void
pixman_transform_point_31_16_3d (const pixman_transform_t *t,
                                const pixman_vector_48_16_t *v,
                                pixman_vector_48_16_t *result)
{
    int i;
    int64_t tmp[3][2];

    /* input vector values must have no more than 31 bits (including sign)
     * in the integer part */
    assert (v->v[0] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[0] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[1] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[1] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[2] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
    assert (v->v[2] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));

    for (i = 0; i < 3; i++)
    {
        tmp[i][0] = (int64_t)t->matrix[i][0] * (v->v[0] >> 16);
        tmp[i][1] = (int64_t)t->matrix[i][0] * (v->v[0] & 0xFFFF);
        tmp[i][0] += (int64_t)t->matrix[i][1] * (v->v[1] >> 16);
        tmp[i][1] += (int64_t)t->matrix[i][1] * (v->v[1] & 0xFFFF);
        tmp[i][0] += (int64_t)t->matrix[i][2] * (v->v[2] >> 16);
        tmp[i][1] += (int64_t)t->matrix[i][2] * (v->v[2] & 0xFFFF);
    }

    result->v[0] = tmp[0][0] + ((tmp[0][1] + 0x8000) >> 16);
    result->v[1] = tmp[1][0] + ((tmp[1][1] + 0x8000) >> 16);
    result->v[2] = tmp[2][0] + ((tmp[2][1] + 0x8000) >> 16);
}

PIXMAN_EXPORT void
pixman_transform_init_identity (struct pixman_transform *matrix)

```

```

{
    int i;

    memset (matrix, '\0', sizeof (struct pixman_transform));
    for (i = 0; i < 3; i++)
        matrix->matrix[i][i] = F (1);
}

typedef pixman_fixed_32_32_t pixman_fixed_34_30_t;

PIXMAN_EXPORT pixman_bool_t
pixman_transform_point_3d (const struct pixman_transform *transform,
                          struct pixman_vector *    vector)
{
    pixman_vector_48_16_t tmp;
    tmp.v[0] = vector->vector[0];
    tmp.v[1] = vector->vector[1];
    tmp.v[2] = vector->vector[2];

    pixman_transform_point_31_16_3d (transform, &tmp, &tmp);

    vector->vector[0] = tmp.v[0];
    vector->vector[1] = tmp.v[1];
    vector->vector[2] = tmp.v[2];

    return vector->vector[0] == tmp.v[0] &&
           vector->vector[1] == tmp.v[1] &&
           vector->vector[2] == tmp.v[2];
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_point (const struct pixman_transform *transform,
                       struct pixman_vector *    vector)
{
    pixman_vector_48_16_t tmp;
    tmp.v[0] = vector->vector[0];
    tmp.v[1] = vector->vector[1];
    tmp.v[2] = vector->vector[2];

    if (!pixman_transform_point_31_16 (transform, &tmp, &tmp))
        return FALSE;

    vector->vector[0] = tmp.v[0];
    vector->vector[1] = tmp.v[1];
    vector->vector[2] = tmp.v[2];

    return vector->vector[0] == tmp.v[0] &&
           vector->vector[1] == tmp.v[1] &&

```

```

        vector->vector[2] == tmp.v[2];
    }

PIXMAN_EXPORT pixman_bool_t
pixman_transform_multiply (struct pixman_transform * dst,
                           const struct pixman_transform *l,
                           const struct pixman_transform *r)
{
    struct pixman_transform d;
    int dx, dy;
    int o;

    for (dy = 0; dy < 3; dy++)
    {
        for (dx = 0; dx < 3; dx++)
        {
            pixman_fixed_48_16_t v;
            pixman_fixed_32_32_t partial;

            v = 0;
            for (o = 0; o < 3; o++)
            {
                partial =
                    (pixman_fixed_32_32_t) l->matrix[dy][o] *
                    (pixman_fixed_32_32_t) r->matrix[o][dx];

                v += (partial + 0x8000) >> 16;
            }

            if (v > pixman_max_fixed_48_16 || v < pixman_min_fixed_48_16)
                return FALSE;

            d.matrix[dy][dx] = (pixman_fixed_t) v;
        }
    }

    *dst = d;
    return TRUE;
}

PIXMAN_EXPORT void
pixman_transform_init_scale (struct pixman_transform *t,
                             pixman_fixed_t    sx,
                             pixman_fixed_t    sy)
{
    memset (t, '\0', sizeof (struct pixman_transform));

    t->matrix[0][0] = sx;

```

```

t->matrix[1][1] = sy;
t->matrix[2][2] = F (1);
}

static pixman_fixed_t
fixed_inverse (pixman_fixed_t x)
{
    return (pixman_fixed_t) (((pixman_fixed_48_16_t) F (1)) * F (1)) / x;
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_scale (struct pixman_transform *forward,
                        struct pixman_transform *reverse,
                        pixman_fixed_t      sx,
                        pixman_fixed_t      sy)
{
    struct pixman_transform t;

    if (sx == 0 || sy == 0)
        return FALSE;

    if (forward)
    {
        pixman_transform_init_scale (&t, sx, sy);
        if (!pixman_transform_multiply (forward, &t, forward))
            return FALSE;
    }

    if (reverse)
    {
        pixman_transform_init_scale (&t, fixed_inverse (sx),
                                     fixed_inverse (sy));
        if (!pixman_transform_multiply (reverse, reverse, &t))
            return FALSE;
    }

    return TRUE;
}

PIXMAN_EXPORT void
pixman_transform_init_rotate (struct pixman_transform *t,
                              pixman_fixed_t      c,
                              pixman_fixed_t      s)
{
    memset (t, '\0', sizeof (struct pixman_transform));

    t->matrix[0][0] = c;
    t->matrix[0][1] = -s;
}

```

```

t->matrix[1][0] = s;
t->matrix[1][1] = c;
t->matrix[2][2] = F (1);
}

```

```

PIXMAN_EXPORT pixman_bool_t
pixman_transform_rotate (struct pixman_transform *forward,
                        struct pixman_transform *reverse,
                        pixman_fixed_t      c,
                        pixman_fixed_t      s)
{
    struct pixman_transform t;

    if (forward)
    {
        pixman_transform_init_rotate (&t, c, s);
        if (!pixman_transform_multiply (forward, &t, forward))
            return FALSE;
    }

    if (reverse)
    {
        pixman_transform_init_rotate (&t, c, -s);
        if (!pixman_transform_multiply (reverse, reverse, &t))
            return FALSE;
    }

    return TRUE;
}

```

```

PIXMAN_EXPORT void
pixman_transform_init_translate (struct pixman_transform *t,
                                pixman_fixed_t      tx,
                                pixman_fixed_t      ty)
{
    memset (t, '\0', sizeof (struct pixman_transform));

    t->matrix[0][0] = F (1);
    t->matrix[0][2] = tx;
    t->matrix[1][1] = F (1);
    t->matrix[1][2] = ty;
    t->matrix[2][2] = F (1);
}

```

```

PIXMAN_EXPORT pixman_bool_t
pixman_transform_translate (struct pixman_transform *forward,
                           struct pixman_transform *reverse,
                           pixman_fixed_t      tx,

```

```

        pixman_fixed_t      ty)
{
    struct pixman_transform t;

    if (forward)
    {
        pixman_transform_init_translate (&t, tx, ty);

        if (!pixman_transform_multiply (forward, &t, forward))
            return FALSE;
    }

    if (reverse)
    {
        pixman_transform_init_translate (&t, -tx, -ty);

        if (!pixman_transform_multiply (reverse, reverse, &t))
            return FALSE;
    }
    return TRUE;
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_bounds (const struct pixman_transform *matrix,
                        struct pixman_box16 *      b)

{
    struct pixman_vector v[4];
    int i;
    int x1, y1, x2, y2;

    v[0].vector[0] = F (b->x1);
    v[0].vector[1] = F (b->y1);
    v[0].vector[2] = F (1);

    v[1].vector[0] = F (b->x2);
    v[1].vector[1] = F (b->y1);
    v[1].vector[2] = F (1);

    v[2].vector[0] = F (b->x2);
    v[2].vector[1] = F (b->y2);
    v[2].vector[2] = F (1);

    v[3].vector[0] = F (b->x1);
    v[3].vector[1] = F (b->y2);
    v[3].vector[2] = F (1);

    for (i = 0; i < 4; i++)

```



```

{
if (!pixman_transform_point (matrix, &v[i]))
    return FALSE;

x1 = pixman_fixed_to_int (v[i].vector[0]);
y1 = pixman_fixed_to_int (v[i].vector[1]);
x2 = pixman_fixed_to_int (pixman_fixed_ceil (v[i].vector[0]));
y2 = pixman_fixed_to_int (pixman_fixed_ceil (v[i].vector[1]));

if (i == 0)
{
    b->x1 = x1;
    b->y1 = y1;
    b->x2 = x2;
    b->y2 = y2;
}
else
{
    if (x1 < b->x1) b->x1 = x1;
    if (y1 < b->y1) b->y1 = y1;
    if (x2 > b->x2) b->x2 = x2;
    if (y2 > b->y2) b->y2 = y2;
}
}

return TRUE;
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_invert (struct pixman_transform * dst,
                        const struct pixman_transform *src)
{
    struct pixman_f_transform m;

    pixman_f_transform_from_pixman_transform (&m, src);

    if (!pixman_f_transform_invert (&m, &m))
return FALSE;

    if (!pixman_transform_from_pixman_f_transform (dst, &m))
return FALSE;

    return TRUE;
}

static pixman_bool_t
within_epsilon (pixman_fixed_t a,
                pixman_fixed_t b,

```

```

        pixman_fixed_t epsilon)
{
    pixman_fixed_t t = a - b;

    if (t < 0)
        t = -t;

    return t <= epsilon;
}

#define EPSILON (pixman_fixed_t) (2)

#define IS_SAME(a, b) (within_epsilon (a, b, EPSILON))
#define IS_ZERO(a) (within_epsilon (a, 0, EPSILON))
#define IS_ONE(a) (within_epsilon (a, F (1), EPSILON))
#define IS_UNIT(a) \
    (within_epsilon (a, F (1), EPSILON) || \
     within_epsilon (a, F (-1), EPSILON) || \
     IS_ZERO (a))
#define IS_INT(a) (IS_ZERO (pixman_fixed_frac (a)))

PIXMAN_EXPORT pixman_bool_t
pixman_transform_is_identity (const struct pixman_transform *t)
{
    return (IS_SAME (t->matrix[0][0], t->matrix[1][1]) &&
           IS_SAME (t->matrix[0][0], t->matrix[2][2]) &&
           !IS_ZERO (t->matrix[0][0]) &&
           IS_ZERO (t->matrix[0][1]) &&
           IS_ZERO (t->matrix[0][2]) &&
           IS_ZERO (t->matrix[1][0]) &&
           IS_ZERO (t->matrix[1][2]) &&
           IS_ZERO (t->matrix[2][0]) &&
           IS_ZERO (t->matrix[2][1]));
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_is_scale (const struct pixman_transform *t)
{
    return (!IS_ZERO (t->matrix[0][0]) &&
           IS_ZERO (t->matrix[0][1]) &&
           IS_ZERO (t->matrix[0][2]) &&

           IS_ZERO (t->matrix[1][0]) &&
           !IS_ZERO (t->matrix[1][1]) &&
           IS_ZERO (t->matrix[1][2]) &&

           IS_ZERO (t->matrix[2][0]) &&
           IS_ZERO (t->matrix[2][1]) &&

```

```

        !IS_ZERO (t->matrix[2][2]));
    }

PIXMAN_EXPORT pixman_bool_t
pixman_transform_is_int_translate (const struct pixman_transform *t)
{
    return (IS_ONE (t->matrix[0][0]) &&
            IS_ZERO (t->matrix[0][1]) &&
            IS_INT (t->matrix[0][2]) &&

            IS_ZERO (t->matrix[1][0]) &&
            IS_ONE (t->matrix[1][1]) &&
            IS_INT (t->matrix[1][2]) &&

            IS_ZERO (t->matrix[2][0]) &&
            IS_ZERO (t->matrix[2][1]) &&
            IS_ONE (t->matrix[2][2]));
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_is_inverse (const struct pixman_transform *a,
                             const struct pixman_transform *b)
{
    struct pixman_transform t;

    if (!pixman_transform_multiply (&t, a, b))
        return FALSE;

    return pixman_transform_is_identity (&t);
}

PIXMAN_EXPORT void
pixman_f_transform_from_pixman_transform (struct pixman_f_transform * ft,
                                           const struct pixman_transform *t)
{
    int i, j;

    for (j = 0; j < 3; j++)
    {
        for (i = 0; i < 3; i++)
            ft->m[j][i] = pixman_fixed_to_double (t->matrix[j][i]);
    }
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_from_pixman_f_transform (struct pixman_transform * t,
                                           const struct pixman_f_transform *ft)
{

```

```

int i, j;

for (j = 0; j < 3; j++)
{
for (i = 0; i < 3; i++)
{
double d = ft->m[j][i];
if (d < -32767.0 || d > 32767.0)
return FALSE;
d = d * 65536.0 + 0.5;
t->matrix[j][i] = (pixman_fixed_t) floor (d);
}
}

return TRUE;
}

PIXMAN_EXPORT pixman_bool_t
pixman_f_transform_invert (struct pixman_f_transform * dst,
                           const struct pixman_f_transform *src)
{
static const int a[3] = { 2, 2, 1 };
static const int b[3] = { 1, 0, 0 };
pixman_f_transform_t d;
double det;
int i, j;

det = 0;
for (i = 0; i < 3; i++)
{
double p;
int ai = a[i];
int bi = b[i];
p = src->m[i][0] * (src->m[ai][2] * src->m[bi][1] -
src->m[ai][1] * src->m[bi][2]);
if (i == 1)
p = -p;
det += p;
}

if (det == 0)
return FALSE;

det = 1 / det;
for (j = 0; j < 3; j++)
{
for (i = 0; i < 3; i++)
{

```

```

double p;
int ai = a[i];
int aj = a[j];
int bi = b[i];
int bj = b[j];

p = (src->m[ai][aj] * src->m[bi][bj] -
      src->m[ai][bj] * src->m[bi][aj]);

if (((i + j) & 1) != 0)
p = -p;

d.m[j][i] = det * p;
}
}

*dst = d;

return TRUE;
}

PIXMAN_EXPORT pixman_bool_t
pixman_f_transform_point (const struct pixman_f_transform *t,
                          struct pixman_f_vector *    v)
{
    struct pixman_f_vector result;
    int i, j;
    double a;

    for (j = 0; j < 3; j++)
    {
        a = 0;
        for (i = 0; i < 3; i++)
            a += t->m[j][i] * v->v[i];
        result.v[j] = a;
    }

    if (!result.v[2])
        return FALSE;

    for (j = 0; j < 2; j++)
        v->v[j] = result.v[j] / result.v[2];

    v->v[2] = 1;

    return TRUE;
}

```

```

PIXMAN_EXPORT void
pixman_f_transform_point_3d (const struct pixman_f_transform *t,
                             struct pixman_f_vector *    v)
{
    struct pixman_f_vector result;
    int i, j;
    double a;

    for (j = 0; j < 3; j++)
    {
        a = 0;
        for (i = 0; i < 3; i++)
            a += t->m[j][i] * v->v[i];
        result.v[j] = a;
    }

    *v = result;
}

```

```

PIXMAN_EXPORT void
pixman_f_transform_multiply (struct pixman_f_transform *    dst,
                             const struct pixman_f_transform *l,
                             const struct pixman_f_transform *r)
{
    struct pixman_f_transform d;
    int dx, dy;
    int o;

    for (dy = 0; dy < 3; dy++)
    {
        for (dx = 0; dx < 3; dx++)
        {
            double v = 0;
            for (o = 0; o < 3; o++)
                v += l->m[dy][o] * r->m[o][dx];
            d.m[dy][dx] = v;
        }
    }

    *dst = d;
}

```

```

PIXMAN_EXPORT void
pixman_f_transform_init_scale (struct pixman_f_transform *t,
                               double                sx,
                               double                sy)
{
    t->m[0][0] = sx;
}

```

```

t->m[0][1] = 0;
t->m[0][2] = 0;
t->m[1][0] = 0;
t->m[1][1] = sy;
t->m[1][2] = 0;
t->m[2][0] = 0;
t->m[2][1] = 0;
t->m[2][2] = 1;
}

```

```

PIXMAN_EXPORT pixman_bool_t
pixman_f_transform_scale (struct pixman_f_transform *forward,
                          struct pixman_f_transform *reverse,
                          double          sx,
                          double          sy)
{
    struct pixman_f_transform t;

    if (sx == 0 || sy == 0)
        return FALSE;

    if (forward)
    {
        pixman_f_transform_init_scale (&t, sx, sy);
        pixman_f_transform_multiply (forward, &t, forward);
    }

    if (reverse)
    {
        pixman_f_transform_init_scale (&t, 1 / sx, 1 / sy);
        pixman_f_transform_multiply (reverse, reverse, &t);
    }

    return TRUE;
}

```

```

PIXMAN_EXPORT void
pixman_f_transform_init_rotate (struct pixman_f_transform *t,
                                double          c,
                                double          s)
{
    t->m[0][0] = c;
    t->m[0][1] = -s;
    t->m[0][2] = 0;
    t->m[1][0] = s;
    t->m[1][1] = c;
    t->m[1][2] = 0;
    t->m[2][0] = 0;
}

```

```
t->m[2][1] = 0;
t->m[2][2] = 1;
}
```

```
PIXMAN_EXPORT pixman_bool_t
pixman_f_transform_rotate (struct pixman_f_transform *forward,
                           struct pixman_f_transform *reverse,
                           double          c,
                           double          s)
{
    struct pixman_f_transform t;

    if (forward)
    {
        pixman_f_transform_init_rotate (&t, c, s);
        pixman_f_transform_multiply (forward, &t, forward);
    }

    if (reverse)
    {
        pixman_f_transform_init_rotate (&t, c, -s);
        pixman_f_transform_multiply (reverse, reverse, &t);
    }

    return TRUE;
}
```

```
PIXMAN_EXPORT void
pixman_f_transform_init_translate (struct pixman_f_transform *t,
                                   double          tx,
                                   double          ty)
{
    t->m[0][0] = 1;
    t->m[0][1] = 0;
    t->m[0][2] = tx;
    t->m[1][0] = 0;
    t->m[1][1] = 1;
    t->m[1][2] = ty;
    t->m[2][0] = 0;
    t->m[2][1] = 0;
    t->m[2][2] = 1;
}
```

```
PIXMAN_EXPORT pixman_bool_t
pixman_f_transform_translate (struct pixman_f_transform *forward,
                              struct pixman_f_transform *reverse,
                              double          tx,
                              double          ty)
```



```

{
    struct pixman_f_transform t;

    if (forward)
    {
        pixman_f_transform_init_translate (&t, tx, ty);
        pixman_f_transform_multiply (forward, &t, forward);
    }

    if (reverse)
    {
        pixman_f_transform_init_translate (&t, -tx, -ty);
        pixman_f_transform_multiply (reverse, reverse, &t);
    }

    return TRUE;
}

PIXMAN_EXPORT pixman_bool_t
pixman_f_transform_bounds (const struct pixman_f_transform *t,
                          struct pixman_box16 *    b)
{
    struct pixman_f_vector v[4];
    int i;
    int x1, y1, x2, y2;

    v[0].v[0] = b->x1;
    v[0].v[1] = b->y1;
    v[0].v[2] = 1;
    v[1].v[0] = b->x2;
    v[1].v[1] = b->y1;
    v[1].v[2] = 1;
    v[2].v[0] = b->x2;
    v[2].v[1] = b->y2;
    v[2].v[2] = 1;
    v[3].v[0] = b->x1;
    v[3].v[1] = b->y2;
    v[3].v[2] = 1;

    for (i = 0; i < 4; i++)
    {
        if (!pixman_f_transform_point (t, &v[i]))
            return FALSE;

        x1 = floor (v[i].v[0]);
        y1 = floor (v[i].v[1]);
        x2 = ceil (v[i].v[0]);
        y2 = ceil (v[i].v[1]);
    }
}

```

```

if (i == 0)
{
    b->x1 = x1;
    b->y1 = y1;
    b->x2 = x2;
    b->y2 = y2;
}
else
{
    if (x1 < b->x1) b->x1 = x1;
    if (y1 < b->y1) b->y1 = y1;
    if (x2 > b->x2) b->x2 = x2;
    if (y2 > b->y2) b->y2 = y2;
}
}

return TRUE;
}

PIXMAN_EXPORT void
pixman_f_transform_init_identity (struct pixman_f_transform *t)
{
    int i, j;

    for (j = 0; j < 3; j++)
    {
        for (i = 0; i < 3; i++)
            t->m[j][i] = i == j ? 1 : 0;
    }
}

```

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1.314 pkgconfig 0.25

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Version 2, June 1991

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```

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```

```
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1.315 plymouth 0.8.4

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1.316 pm-utils 1.4.1

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1.317 polycoreutils 2.1.4 :17.fc16

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1.318 popt 1.13 :9.fc16

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1.320 pptp 1.7.2

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1.323 psmisc 22.16 :1.fc16

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1.324 psutil 2.1.1

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1.325 pth 2.0.7 :10

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| | \ | | | |
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    How do I know? Well, James Bond
    had the (license to kill) number 007,
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```

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1.326 pygobject2 2.28.6 :2.fc16

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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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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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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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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.

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1.328 pygtk2 2.24.0 :3.fc15

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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

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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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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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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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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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1.329 pyinotify 0.9.4

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```
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```

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```
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```

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```
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```

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

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1.338 python-kitchen 1.1.1

1.338.1 Available under license :

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```

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

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That's all there is to it!

1.339 python-markupsafe 0.11

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1.340 python-meh 0.11

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1.341 python-netaddr 0.7.5 :4.e16

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1.342 python-setuptools 0.6c11-py2.7

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Major enhancements and refactoring by:

Jim Fulton

Edward Loper

1.343 python-slip 0.2.24

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Version 2, June 1991

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1.350 readline 6.2

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1.360 ruby 1.8.7

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/*

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A C-program for MT19937, with initialization improved 2002/2/10.

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a faster version by taking Shawn Cokus's optimization,

Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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*/

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* The Author

Feel free to send comments and bug reports to the author. Here is the author's latest mail address:

shigeo@tinyforest.gr.jp

created at: Thu Dec 22 1999

/*

* sha2.c

*

* Version 1.0.0beta1

*

* Written by Aaron D. Gifford <me@aarongifford.com>

*

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1.361 ruby_redex 1.8.7

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/*

This is based on trimmed version of MT19937. To get the original version, contact <<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>>.

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A C-program for MT19937, with initialization improved 2002/2/10.

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a faster version by taking Shawn Cokus's optimization,

Matthe Bellew's simplification, Isaku Wada's real version.

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.keio.ac.jp/matsumoto/emt.html>

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*/

Ruby BIGDECIMAL(Variable Precision) extension library.

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* The Author

Feel free to send comments and bug reports to the author. Here is the author's latest mail address:

shigeo@tinyforest.gr.jp

created at: Thu Dec 22 1999

```
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 * sha2.c
 *
 * Version 1.0.0beta1
 *
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### However, the bitmap data files ('bwidgetet.xbm' and 'x1.xbm') ###
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#####
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1.366 sgpio 1.2.0_10 :2.e15

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+ URL: <http://gnome-look.org/content/show.php/%22Borealis%22+sound+theme?content=12584>
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+
+message-new-instant
+
+phone-incoming-call
+phone-outgoing-busy
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Url: <http://www.freedesktop.org/wiki/Specifications/sound-theme-spec>

BuildRoot: % {_tmppath}/% {name}-% {version}-% {release}-root-% ({__id_u} -n)

BuildArch: noarch

BuildRequires: gettext

BuildRequires: intltool >= 0.40

Requires(post): /bin/touch

Requires(postun): /bin/touch

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+audio-channel-front-left

+audio-channel-front-right

+audio-channel-rear-center

+audio-channel-rear-left

+audio-channel-rear-right

+audio-channel-side-left

+audio-channel-side-right

+audio-test-signal

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+power-unplug
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+network-connectivity-lost
+message
+dialog-information
+dialog-warning

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- + URL: <http://gnome-look.org/content/show.php/%22Borealis%22+sound+theme?content=12584>
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Url: <http://www.freedesktop.org/wiki/Specifications/sound-theme-spec>

BuildRoot: % {_tmppath} /% {name} -% {version} -% {release} -root-% ({__id_u} -n)

BuildArch: noarch

BuildRequires: gettext

BuildRequires: intltool >= 0.40

Requires(post): /bin/touch
Requires(postun): /bin/touch

1.373 sound-theme-freedesktop_CC-BY-SA

0.7 :3.el6

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--- /dev/null 2010-02-03 09:33:55.617813695 -0500

+++ CREDITS 2009-09-30 11:16:50.305491612 -0400

@@ -0,0 +1,77 @@

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```

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```
--- /dev/null 2010-02-03 09:33:55.617813695 -0500
+++ CREDITS 2009-09-30 11:16:50.305491612 -0400
@@ -0,0 +1,77 @@
+alarm-clock-elapsed
+  Copyright: Tim/corsica_s
+  URL: http://www.freesound.org/samplesViewSingle.php?id=67091
+  License: CC-BY-SA (relicensed with permission from author)
+
+audio-channel-front-center
+audio-channel-front-left
+audio-channel-front-right
+audio-channel-rear-center
+audio-channel-rear-left
+audio-channel-rear-right
+audio-channel-side-left
+audio-channel-side-right
```

+audio-test-signal
+ Copyright: The ALSA developers
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+ License: GPLv2+
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+audio-volume-change
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Url: <http://www.freedesktop.org/wiki/Specifications/sound-theme-spec>

BuildRoot: % {_tmppath}/% {name}-% {version}-% {release}-root-% (% {__id_u} -n)

BuildArch: noarch

BuildRequires: gettext

BuildRequires: intltool >= 0.40

Requires(post): /bin/touch

Requires(postun): /bin/touch

1.375 speaklater 1.3

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1.378 squashfs-tools 4.2

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That's all there is to it!

1.380 sysfsutils - cmd and tests 2.1.0 :1.e15

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

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

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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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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".)

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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 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

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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.

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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 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.

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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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1.381 sysfsutils - library 2.1.0 :1.e15

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables

containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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- 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.
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1.382 sysstat 10.0.2

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```
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1.383 system-config-date 1.10.5 :1

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

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1.384 system-config-firewall 1.2.29 :4

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1.385 system-config-network 1.6.5 :1

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```
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1.386 system-config-users 1.3.3

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```

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1.388 systemd 37 :25

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1.389 talk 0.17 :26

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1.391 tcpdump 4.1.1-1

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It was downloaded from <http://www.tcpdump.org/>

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest 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.

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

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

```
Gnomovision version 69, Copyright (C) 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
```

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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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(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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1.396 thunar-archive-plugin 0.3.0

1.396.1 Available under license :

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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.

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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.

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1.400 tree 1.6.0

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1.401 tumbler 0.1.23

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Link Asia/Saigon VST

Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule SystemV min 1973 - Apr lastSun 2:00 1:00 D
Rule SystemV min 1973 - Oct lastSun 2:00 0 S
Rule SystemV 1974 only - Jan 6 2:00 1:00 D
Rule SystemV 1974 only - Nov lastSun 2:00 0 S
Rule SystemV 1975 only - Feb 23 2:00 1:00 D
Rule SystemV 1975 only - Oct lastSun 2:00 0 S
Rule SystemV 1976 max - Apr lastSun 2:00 1:00 D
Rule SystemV 1976 max - Oct lastSun 2:00 0 S

Zone NAME GMTOFF RULES/SAVE FORMAT [UNTIL]

Zone SystemV/AST4ADT -4:00 SystemV A%sT
Zone SystemV/EST5EDT -5:00 SystemV E%sT
Zone SystemV/CST6CDT -6:00 SystemV C%sT
Zone SystemV/MST7MDT -7:00 SystemV M%sT
Zone SystemV/PST8PDT -8:00 SystemV P%sT
Zone SystemV/YST9YDT -9:00 SystemV Y%sT
Zone SystemV/AST4 -4:00 - AST
Zone SystemV/EST5 -5:00 - EST
Zone SystemV/CST6 -6:00 - CST
Zone SystemV/MST7 -7:00 - MST
Zone SystemV/PST8 -8:00 - PST
Zone SystemV/YST9 -9:00 - YST

Zone SystemV/HST10 -10:00 - HST

<pre>

This file is in the public domain, so clarified as of

2009-05-17 by Arthur David Olson.

This data is by no means authoritative; if you think you know better,

go ahead and edit the file (and please send any changes to

tz@iana.org for general use in the future).

From Paul Eggert (2006-03-22):

#

A good source for time zone historical data outside the U.S. is

Thomas G. Shanks and Rique Pottenger, The International Atlas (6th edition),

San Diego: ACS Publications, Inc. (2003).

#

Gwillim Law writes that a good source

for recent time zone data is the International Air Transport

Association's Standard Schedules Information Manual (IATA SSIM),

published semiannually. Law sent in several helpful summaries

of the IATA's data after 1990.

#

Except where otherwise noted, Shanks & Pottenger is the source for

entries through 1990, and IATA SSIM is the source for entries afterwards.

#

Another source occasionally used is Edward W. Whitman, World Time Differences,

Whitman Publishing Co, 2 Niagara Av, Ealing, London (undated), which

I found in the UCLA library.

#

A reliable and entertaining source about time zones is

Derek Howse, Greenwich time and longitude, Philip Wilson Publishers (1997).

#

Previous editions of this database used WAT, CAT, SAT, and EAT

for +0:00 through +3:00, respectively,

but Mark R V Murray reports that

'SAST' is the official abbreviation for +2:00 in the country of South Africa,

'CAT' is commonly used for +2:00 in countries north of South Africa, and

'WAT' is probably the best name for +1:00, as the common phrase for

the area that includes Nigeria is "West Africa".

He has heard of "Western Sahara Time" for +0:00 but can find no reference.

#

To make things confusing, 'WAT' seems to have been used for -1:00 long ago;

I'd guess that this was because people needed some name for -1:00,

and at the time, far west Africa was the only major land area in -1:00.

This usage is now obsolete, as the last use of -1:00 on the African

mainland seems to have been 1976 in Western Sahara.

#

To summarize, the following abbreviations seem to have some currency:

-1:00 WAT West Africa Time (no longer used)

```

# 0:00 GMT Greenwich Mean Time
# 2:00 CAT Central Africa Time
# 2:00 SAST South Africa Standard Time
# and Murray suggests the following abbreviation:
# 1:00 WAT West Africa Time
# I realize that this leads to 'WAT' being used for both -1:00 and 1:00
# for times before 1976, but this is the best I can think of
# until we get more information.
#
# I invented the following abbreviations; corrections are welcome!
# 2:00 WAST West Africa Summer Time
# 2:30 BEAT British East Africa Time (no longer used)
# 2:45 BEAUT British East Africa Unified Time (no longer used)
# 3:00 CAST Central Africa Summer Time (no longer used)
# 3:00 SAST South Africa Summer Time (no longer used)
# 3:00 EAT East Africa Time
# 4:00 EAST East Africa Summer Time (no longer used)

# Algeria
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Algeria 1916 only - Jun 14 23:00s 1:00 S
Rule Algeria 1916 1919 - Oct Sun>=1 23:00s 0 -
Rule Algeria 1917 only - Mar 24 23:00s 1:00 S
Rule Algeria 1918 only - Mar 9 23:00s 1:00 S
Rule Algeria 1919 only - Mar 1 23:00s 1:00 S
Rule Algeria 1920 only - Feb 14 23:00s 1:00 S
Rule Algeria 1920 only - Oct 23 23:00s 0 -
Rule Algeria 1921 only - Mar 14 23:00s 1:00 S
Rule Algeria 1921 only - Jun 21 23:00s 0 -
Rule Algeria 1939 only - Sep 11 23:00s 1:00 S
Rule Algeria 1939 only - Nov 19 1:00 0 -
Rule Algeria 1944 1945 - Apr Mon>=1 2:00 1:00 S
Rule Algeria 1944 only - Oct 8 2:00 0 -
Rule Algeria 1945 only - Sep 16 1:00 0 -
Rule Algeria 1971 only - Apr 25 23:00s 1:00 S
Rule Algeria 1971 only - Sep 26 23:00s 0 -
Rule Algeria 1977 only - May 6 0:00 1:00 S
Rule Algeria 1977 only - Oct 21 0:00 0 -
Rule Algeria 1978 only - Mar 24 1:00 1:00 S
Rule Algeria 1978 only - Sep 22 3:00 0 -
Rule Algeria 1980 only - Apr 25 0:00 1:00 S
Rule Algeria 1980 only - Oct 31 2:00 0 -
# Shanks & Pottenger give 0:09:20 for Paris Mean Time; go with Howse's
# more precise 0:09:21.
# Zone NAME GMT-OFF RULES FORMAT [UNTIL]
Zone Africa/Algiers 0:12:12 - LMT 1891 Mar 15 0:01
0:09:21 - PMT 1911 Mar 11 # Paris Mean Time
0:00 Algeria WE%ST 1940 Feb 25 2:00

```

1:00 Algeria CE%ST 1946 Oct 7

0:00 - WET 1956 Jan 29

1:00 - CET 1963 Apr 14

0:00 Algeria WE%ST 1977 Oct 21

1:00 Algeria CE%ST 1979 Oct 26

0:00 Algeria WE%ST 1981 May

1:00 - CET

Angola

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Africa/Luanda 0:52:56 - LMT 1892

0:52:04 - AOT 1911 May 26 # Angola Time

1:00 - WAT

Benin

Whitman says they switched to 1:00 in 1946, not 1934;

go with Shanks & Pottenger.

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Africa/Porto-Novo 0:10:28 - LMT 1912

0:00 - GMT 1934 Feb 26

1:00 - WAT

Botswana

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Africa/Gaborone 1:43:40 - LMT 1885

2:00 - CAT 1943 Sep 19 2:00

2:00 1:00 CAST 1944 Mar 19 2:00

2:00 - CAT

Burkina Faso

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Africa/Ouagadougou -0:06:04 - LMT 1912

0:00 - GMT

Burundi

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Africa/Bujumbura 1:57:28 - LMT 1890

2:00 - CAT

Cameroon

Whitman says they switched to 1:00 in 1920; go with Shanks & Pottenger.

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Africa/Douala 0:38:48 - LMT 1912

1:00 - WAT

Cape Verde

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Atlantic/Cape_Verde -1:34:04 - LMT 1907 # Praia

-2:00 - CVT 1942 Sep
-2:00 1:00 CVST 1945 Oct 15
-2:00 - CVT 1975 Nov 25 2:00
-1:00 - CVT

Central African Republic
Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Bangui 1:14:20 - LMT 1912
1:00 - WAT

Chad
Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Ndjamena 1:00:12 - LMT 1912
1:00 - WAT 1979 Oct 14
1:00 1:00 WAST 1980 Mar 8
1:00 - WAT

Comoros
Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Indian/Comoro 2:53:04 - LMT 1911 Jul # Moroni, Gran Comoro
3:00 - EAT

Democratic Republic of Congo
Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Kinshasa 1:01:12 - LMT 1897 Nov 9
1:00 - WAT
Zone Africa/Lubumbashi 1:49:52 - LMT 1897 Nov 9
2:00 - CAT

Republic of the Congo
Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Brazzaville 1:01:08 - LMT 1912
1:00 - WAT

Cote D'Ivoire
Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Abidjan -0:16:08 - LMT 1912
0:00 - GMT

Djibouti
Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Djibouti 2:52:36 - LMT 1911 Jul
3:00 - EAT

#####

Egypt

```

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Egypt 1940 only - Jul 15 0:00 1:00 S
Rule Egypt 1940 only - Oct 1 0:00 0 -
Rule Egypt 1941 only - Apr 15 0:00 1:00 S
Rule Egypt 1941 only - Sep 16 0:00 0 -
Rule Egypt 1942 1944 - Apr 1 0:00 1:00 S
Rule Egypt 1942 only - Oct 27 0:00 0 -
Rule Egypt 1943 1945 - Nov 1 0:00 0 -
Rule Egypt 1945 only - Apr 16 0:00 1:00 S
Rule Egypt 1957 only - May 10 0:00 1:00 S
Rule Egypt 1957 1958 - Oct 1 0:00 0 -
Rule Egypt 1958 only - May 1 0:00 1:00 S
Rule Egypt 1959 1981 - May 1 1:00 1:00 S
Rule Egypt 1959 1965 - Sep 30 3:00 0 -
Rule Egypt 1966 1994 - Oct 1 3:00 0 -
Rule Egypt 1982 only - Jul 25 1:00 1:00 S
Rule Egypt 1983 only - Jul 12 1:00 1:00 S
Rule Egypt 1984 1988 - May 1 1:00 1:00 S
Rule Egypt 1989 only - May 6 1:00 1:00 S
Rule Egypt 1990 1994 - May 1 1:00 1:00 S
# IATA (after 1990) says transitions are at 0:00.
# Go with IATA starting in 1995, except correct 1995 entry from 09-30 to 09-29.

# From Alexander Krivenyshev (2011-04-20):
# "...Egypt's interim cabinet decided on Wednesday to cancel daylight
# saving time after a poll posted on its website showed the majority of
# Egyptians would approve the cancellation."
#
# Egypt to cancel daylight saving time
# <a href="http://www.almasryalyoum.com/en/node/407168">
# http://www.almasryalyoum.com/en/node/407168
# </a>
# or
# <a href="http://www.worldtimezone.com/dst_news/dst_news_egypt04.html">
# http://www.worldtimezone.com/dst_news/dst_news_egypt04.html
# </a>
Rule Egypt 1995 2010 - Apr lastFri 0:00s 1:00 S
Rule Egypt 1995 2005 - Sep lastThu 23:00s 0 -
# From Steffen Thorsen (2006-09-19):
# The Egyptian Gazette, issue 41,090 (2006-09-18), page 1, reports:
# Egypt will turn back clocks by one hour at the midnight of Thursday
# after observing the daylight saving time since May.
# http://news.gom.com.eg/gazette/pdf/2006/09/18/01.pdf
Rule Egypt 2006 only - Sep 21 23:00s 0 -
# From Dirk Losch (2007-08-14):
# I received a mail from an airline which says that the daylight
# saving time in Egypt will end in the night of 2007-09-06 to 2007-09-07.
# From Jesper Norgaard Welen (2007-08-15): [The following agree:]

```

```
# http://www.nentjes.info/Bill/bill5.htm
# http://www.timeanddate.com/worldclock/city.html?n=53
# From Steffen Thorsen (2007-09-04): The official information...:
# http://www.sis.gov.eg/En/EgyptOnline/Miscellaneous/000002/0207000000000000001580.htm
Rule Egypt 2007 only - Sep Thu>=1 23:00s 0 -
# From Abdelrahman Hassan (2007-09-06):
# Due to the Hijri (lunar Islamic calendar) year being 11 days shorter
# than the year of the Gregorian calendar, Ramadan shifts earlier each
# year. This year it will be observed September 13 (September is quite
# hot in Egypt), and the idea is to make fasting easier for workers by
# shifting business hours one hour out of daytime heat. Consequently,
# unless discontinued, next DST may end Thursday 28 August 2008.
# From Paul Eggert (2007-08-17):
# For lack of better info, assume the new rule is last Thursday in August.

# From Petr Machata (2009-04-06):
# The following appeared in Red Hat bugzilla[1] (edited):
#
# > $ zdump -v /usr/share/zoneinfo/Africa/Cairo | grep 2009
# > /usr/share/zoneinfo/Africa/Cairo Thu Apr 23 21:59:59 2009 UTC = Thu =
# Apr 23
# > 23:59:59 2009 EET isdst=0 gmtoff=-7200
# > /usr/share/zoneinfo/Africa/Cairo Thu Apr 23 22:00:00 2009 UTC = Fri =
# Apr 24
# > 01:00:00 2009 EEST isdst=1 gmtoff=10800
# > /usr/share/zoneinfo/Africa/Cairo Thu Aug 27 20:59:59 2009 UTC = Thu =
# Aug 27
# > 23:59:59 2009 EEST isdst=1 gmtoff=10800
# > /usr/share/zoneinfo/Africa/Cairo Thu Aug 27 21:00:00 2009 UTC = Thu =
# Aug 27
# > 23:00:00 2009 EET isdst=0 gmtoff=-7200
#
# > end date should be Thu Sep 24 2009 (Last Thursday in September at 23:59=
# :59)
# > http://support.microsoft.com/kb/958729/
#
# timeanddate[2] and another site I've found[3] also support that.
#
# [1] <a href="https://bugzilla.redhat.com/show_bug.cgi?id=492263">
# https://bugzilla.redhat.com/show_bug.cgi?id=492263
# </a>
# [2] <a href="http://www.timeanddate.com/worldclock/clockchange.html?n=53">
# http://www.timeanddate.com/worldclock/clockchange.html?n=53
# </a>
# [3] <a href="http://wwp.greenwichmeantime.com/time-zone/africa/egypt/">
# http://wwp.greenwichmeantime.com/time-zone/africa/egypt/
# </a>
```

From Arthur David Olson (2009-04-20):
In 2009 (and for the next several years), Ramadan ends before the fourth
Thursday in September; Egypt is expected to revert to the last Thursday
in September.

From Steffen Thorsen (2009-08-11):
We have been able to confirm the August change with the Egyptian Cabinet
Information and Decision Support Center:

http://www.timeanddate.com/news/time/egypt-dst-ends-2009.html

The Middle East News Agency

http://www.mena.org.eg/index.aspx

also reports "Egypt starts winter time on August 21"
today in article numbered "71, 11/08/2009 12:25 GMT."
Only the title above is available without a subscription to their service,
and can be found by searching for "winter" in their search engine
(at least today).

From Alexander Krivenyshev (2010-07-20):
According to News from Egypt - Al-Masry Al-Youm Egypt's cabinet has
decided that Daylight Saving Time will not be used in Egypt during
Ramadan.

Arabic translation:
"Clocks to go back during Ramadan--and then forward again"

http://www.almasryalyoum.com/en/news/clocks-go-back-during-ramadan-and-then-forward-again

or

http://www.worldtimezone.com/dst_news/dst_news_egypt02.html

Rule Egypt 2008 only - Aug lastThu 23:00s 0 -
Rule Egypt 2009 only - Aug 20 23:00s 0 -
Rule Egypt 2010 only - Aug 11 0:00 0 -
Rule Egypt 2010 only - Sep 10 0:00 1:00 S
Rule Egypt 2010 only - Sep lastThu 23:00s 0 -

Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Cairo 2:05:00 - LMT 1900 Oct
2:00 Egypt EE%sT

Equatorial Guinea


```

# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Malabo 0:35:08 - LMT 1912
  0:00 - GMT 1963 Dec 15
  1:00 - WAT

# Eritrea
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Asmara 2:35:32 - LMT 1870
  2:35:32 - AMT 1890 # Asmara Mean Time
  2:35:20 - ADMT 1936 May 5 # Adis Dera MT
  3:00 - EAT

# Ethiopia
# From Paul Eggert (2006-03-22):
# Shanks & Pottenger write that Ethiopia had six narrowly-spaced time zones
# between 1870 and 1890, and that they merged to 38E50 (2:35:20) in 1890.
# We'll guess that 38E50 is for Adis Dera.
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Addis_Ababa 2:34:48 - LMT 1870
  2:35:20 - ADMT 1936 May 5 # Adis Dera MT
  3:00 - EAT

# Gabon
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Libreville 0:37:48 - LMT 1912
  1:00 - WAT

# Gambia
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Banjul -1:06:36 - LMT 1912
  -1:06:36 - BMT 1935 # Banjul Mean Time
  -1:00 - WAT 1964
  0:00 - GMT

# Ghana
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
# Whitman says DST was observed from 1931 to "the present";
# go with Shanks & Pottenger.
Rule Ghana 1936 1942 - Sep 1 0:00 0:20 GHST
Rule Ghana 1936 1942 - Dec 31 0:00 0 GMT
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Accra -0:00:52 - LMT 1918
  0:00 Ghana %s

# Guinea
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Conakry -0:54:52 - LMT 1912
  0:00 - GMT 1934 Feb 26

```

-1:00 - WAT 1960

0:00 - GMT

Guinea-Bissau

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Bissau -1:02:20 - LMT 1911 May 26

-1:00 - WAT 1975

0:00 - GMT

Kenya

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Nairobi 2:27:16 - LMT 1928 Jul

3:00 - EAT 1930

2:30 - BEAT 1940

2:45 - BEAUT 1960

3:00 - EAT

Lesotho

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Maseru 1:50:00 - LMT 1903 Mar

2:00 - SAST 1943 Sep 19 2:00

2:00 1:00 SAST 1944 Mar 19 2:00

2:00 - SAST

Liberia

From Paul Eggert (2006-03-22):

In 1972 Liberia was the last country to switch

from a UTC offset that was not a multiple of 15 or 20 minutes.

Howse reports that it was in honor of their president's birthday.

Shank & Pottenger report the date as May 1, whereas Howse reports Jan;

go with Shanks & Pottenger.

For Liberia before 1972, Shanks & Pottenger report -0:44, whereas Howse and

Whitman each report -0:44:30; go with the more precise figure.

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Monrovia -0:43:08 - LMT 1882

-0:43:08 - MMT 1919 Mar # Monrovia Mean Time

-0:44:30 - LRT 1972 May # Liberia Time

0:00 - GMT

#####

Libya

From Even Scharning (2012-11-10):

Libya set their time one hour back at 02:00 on Saturday November 10.

<http://www.libyaherald.com/2012/11/04/clocks-to-go-back-an-hour-on-saturday/>

Here is an official source [in Arabic]: <http://ls.ly/fb6Yc>

#

Steffen Thorsen forwarded a translation (2012-11-10) in
<http://mm.icann.org/pipermail/tz/2012-November/018451.html>

From Tim Parenti (2012-11-11):
Treat the 2012-11-10 change as a zone change from UTC+2 to UTC+1.
The DST rules planned for 2013 and onward roughly mirror those of Europe
(either two days before them or five days after them, so as to fall on
lastFri instead of lastSun).

Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Libya 1951 only - Oct 14 2:00 1:00 S
Rule Libya 1952 only - Jan 1 0:00 0 -
Rule Libya 1953 only - Oct 9 2:00 1:00 S
Rule Libya 1954 only - Jan 1 0:00 0 -
Rule Libya 1955 only - Sep 30 0:00 1:00 S
Rule Libya 1956 only - Jan 1 0:00 0 -
Rule Libya 1982 1984 - Apr 1 0:00 1:00 S
Rule Libya 1982 1985 - Oct 1 0:00 0 -
Rule Libya 1985 only - Apr 6 0:00 1:00 S
Rule Libya 1986 only - Apr 4 0:00 1:00 S
Rule Libya 1986 only - Oct 3 0:00 0 -
Rule Libya 1987 1989 - Apr 1 0:00 1:00 S
Rule Libya 1987 1989 - Oct 1 0:00 0 -
Rule Libya 1997 only - Apr 4 0:00 1:00 S
Rule Libya 1997 only - Oct 4 0:00 0 -
Rule Libya 2013 max - Mar lastFri 1:00 1:00 S
Rule Libya 2013 max - Oct lastFri 2:00 0 -

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Africa/Tripoli 0:52:44 - LMT 1920

1:00 Libya CE%sT 1959
2:00 - EET 1982
1:00 Libya CE%sT 1990 May 4

The 1996 and 1997 entries are from Shanks & Pottenger;
the IATA SSIM data contain some obvious errors.

2:00 - EET 1996 Sep 30
1:00 Libya CE%sT 1997 Oct 4
2:00 - EET 2012 Nov 10 2:00
1:00 Libya CE%sT

Madagascar

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Indian/Antananarivo 3:10:04 - LMT 1911 Jul

3:00 - EAT 1954 Feb 27 23:00s
3:00 1:00 EAST 1954 May 29 23:00s
3:00 - EAT

Malawi

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Africa/Blantyre 2:20:00 - LMT 1903 Mar

2:00 - CAT

Mali

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Bamako -0:32:00 - LMT 1912

0:00 - GMT 1934 Feb 26

-1:00 - WAT 1960 Jun 20

0:00 - GMT

Mauritania

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Nouakchott -1:03:48 - LMT 1912

0:00 - GMT 1934 Feb 26

-1:00 - WAT 1960 Nov 28

0:00 - GMT

Mauritius

From Steffen Thorsen (2008-06-25):

Mauritius plans to observe DST from 2008-11-01 to 2009-03-31 on a trial
basis....

It seems that Mauritius observed daylight saving time from 1982-10-10 to
1983-03-20 as well, but that was not successful....

<http://www.timeanddate.com/news/time/mauritius-daylight-saving-time.html>

From Alex Krivenyshev (2008-06-25):

#

http://economicdevelopment.gov.mu/portal/site/Mainhomepage/menuitem.a42b24128104d9845dabddd154508a0c/?content_id=0a7cee8b5d69a110VgnVCM1000000a04a8c0RCRD

From Arthur David Olson (2008-06-30):

The www.timeanddate.com article cited by Steffen Thorsen notes that "A
final decision has yet to be made on the times that daylight saving
would begin and end on these dates." As a place holder, use midnight.

From Paul Eggert (2008-06-30):

Follow Thorsen on DST in 1982/1983, instead of Shanks & Pottenger.

From Steffen Thorsen (2008-07-10):

According to

http://www.lexpress.mu/display_article.php?news_id=111216

http://www.lexpress.mu/display_article.php?news_id=111216

[http://www.lexpress.mu/display_article.php?news_id=111216](#)

(in French), Mauritius will start and end their DST a few days earlier

than previously announced (2008-11-01 to 2009-03-31). The new start

date is 2008-10-26 at 02:00 and the new end date is 2009-03-27 (no time

given, but it is probably at either 2 or 3 wall clock time).

A little strange though, since the article says that they moved the date
to align itself with Europe and USA which also change time on that date,
but that means they have not paid attention to what happened in
USA/Canada last year (DST ends first Sunday in November). I also wonder
why that they end on a Friday, instead of aligning with Europe which
changes two days later.

From Alex Krivenyshev (2008-07-11):
Seems that English language article "The revival of daylight saving
time: Energy conservation?"-# No. 16578 (07/11/2008) was originally
published on Monday, June 30, 2008...

I guess that article in French "Le gouvernement avance l'introduction
de l'heure d'ete" stating that DST in Mauritius starting on October 26
and ending on March 27, 2009 is the most recent one.
...

http://www.worldtimezone.com/dst_news/dst_news_mauritius02.html

From Riad M. Hossen Ally (2008-08-03):
The Government of Mauritius weblink

http://www.gov.mu/portal/site/pmosite/menuitem.4ca0efdee47462e7440a600248a521ca/?content_id=4728ca68b2a5b110VgnVCM1000000a04a8c0RCRD

Cabinet Decision of July 18th, 2008 states as follows:

4. ...Cabinet has agreed to the introduction into the National Assembly
of the Time Bill which provides for the introduction of summer time in
Mauritius. The summer time period which will be of one hour ahead of
the standard time, will be aligned with that in Europe and the United
States of America. It will start at two o'clock in the morning on the
last Sunday of October and will end at two o'clock in the morning on
the last Sunday of March the following year. The summer time for the
year 2008 - 2009 will, therefore, be effective as from 26 October 2008
and end on 29 March 2009.

From Ed Maste (2008-10-07):
THE TIME BILL (No. XXVII of 2008) Explanatory Memorandum states the
beginning / ending of summer time is 2 o'clock standard time in the
morning of the last Sunday of October / last Sunday of March.

http://www.gov.mu/portal/goc/assemblysite/file/bill2708.pdf

```
# </a>

# From Steffen Thorsen (2009-06-05):
# According to several sources, Mauritius will not continue to observe
# DST the coming summer...
#
# Some sources, in French:
# <a href="http://www.defimedia.info/news/946/Rashid-Beebeejaun-:-%C2%AB-L%E2%80%99heure-
d%E2%80%99%C3%A9t%C3%A9-ne-sera-pas-appliqu%C3%A9-cette-ann%C3%A9-%C2%BB">
# http://www.defimedia.info/news/946/Rashid-Beebeejaun-:-%C2%AB-L%E2%80%99heure-
d%E2%80%99%C3%A9t%C3%A9-ne-sera-pas-appliqu%C3%A9-cette-ann%C3%A9-%C2%BB
# </a>
# <a href="http://lexpress.mu/Story/3398~Beebeejaun---Les-objectifs-d-%C3%A9conomie-d-%C3%A9nergie-de-l-
heure-d-%C3%A9t%C3%A9-ont-%C3%A9t%C3%A9-atteints-">
# http://lexpress.mu/Story/3398~Beebeejaun---Les-objectifs-d-%C3%A9conomie-d-%C3%A9nergie-de-l-heure-d-
%C3%A9t%C3%A9-ont-%C3%A9t%C3%A9-atteints-
# </a>
#
# Our wrap-up:
# <a href="http://www.timeanddate.com/news/time/mauritius-dst-will-not-repeat.html">
# http://www.timeanddate.com/news/time/mauritius-dst-will-not-repeat.html
# </a>

# From Arthur David Olson (2009-07-11):
# The "mauritius-dst-will-not-repeat" wrapup includes this:
# "The trial ended on March 29, 2009, when the clocks moved back by one hour
# at 2am (or 02:00) local time..."

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Mauritius 1982 only - Oct 10 0:00 1:00 S
Rule Mauritius 1983 only - Mar 21 0:00 0 -
Rule Mauritius 2008 only - Oct lastSun 2:00 1:00 S
Rule Mauritius 2009 only - Mar lastSun 2:00 0 -
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Indian/Mauritius 3:50:00 - LMT 1907 # Port Louis
    4:00 Mauritius MU%ST # Mauritius Time
# Agalega Is, Rodriguez
# no information; probably like Indian/Mauritius

# Mayotte
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Indian/Mayotte 3:00:56 - LMT 1911 Jul # Mamoutzou
    3:00 - EAT

# Morocco
# See the 'europe' file for Spanish Morocco (Africa/Ceuta).

# From Alex Krivenyshev (2008-05-09):
```

Here is an article that Morocco plan to introduce Daylight Saving Time between
1 June, 2008 and 27 September, 2008.

"... Morocco is to save energy by adjusting its clock during summer so it will
be one hour ahead of GMT between 1 June and 27 September, according to
Communication Minister and Government Spokesman, Khalid Naciri...."

http://www.worldtimezone.net/dst_news/dst_news_morocco01.html

OR

http://en.afrik.com/news11892.html

From Alex Krivenyshev (2008-05-09):
The Morocco time change can be confirmed on Morocco web site Maghreb Arabe Presse:

http://www.map.ma/eng/sections/box3/morocco_shifts_to_da/view

Morocco shifts to daylight time on June 1st through September 27, Govt.
spokesman.

From Patrice Scattolin (2008-05-09):
According to this article:

http://www.avmaroc.com/actualite/heure-dete-comment-a127896.html

(and republished here:

http://www.actu.ma/heure-dete-comment_i127896_0.html

)
the changes occurs at midnight:

saturday night may 31st at midnight (which in french is to be
interpreted as the night between saturday and sunday)
sunday night the 28th at midnight

Seeing that the 28th is monday, I am guessing that she intends to say
the midnight of the 28th which is the midnight between sunday and
monday, which jives with other sources that say that it's inclusive
june1st to sept 27th.

The decision was taken by decree *2-08-224 *but I can't find the decree
published on the web.
#

It's also confirmed here:

http://www.maroc.ma/NR/exeres/FACF141F-D910-44B0-B7FA-6E03733425D1.htm

on a government portal as being between june 1st and sept 27th (not yet
posted in english).

The following google query will generate many relevant hits:

http://www.google.com/search?hl=en&q=Conseil+de+gouvernement+maroc+heure+avance&btnG=Search

From Alex Krivenyshev (2008-05-09):
Is Western Sahara (part which administrated by Morocco) going to follow
Morocco DST changes? Any information? What about other part of
Western Sahara - under administration of POLISARIO Front (also named
SADR Saharawi Arab Democratic Republic)?

From Arthur David Olson (2008-05-09):
XXX--guess that it is only Morocco for now; guess only 2008 for now.

From Steffen Thorsen (2008-08-27):
Morocco will change the clocks back on the midnight between August 31
and September 1. They originally planned to observe DST to near the end
of September:

One article about it (in French):

http://www.menara.ma/fr/Actualites/Maroc/Societe/ci.retour_a_1_heure_gmt_a_partir_du_dimanche_31_aout_a_minuit_officiel_.default

We have some further details posted here:

http://www.timeanddate.com/news/time/morocco-ends-dst-early-2008.html

From Steffen Thorsen (2009-03-17):
Morocco will observe DST from 2009-06-01 00:00 to 2009-08-21 00:00 according
to many sources, such as

http://news.marweb.com/morocco/entertainment/morocco-daylight-saving.html

<http://www.medi1sat.ma/fr/depeche.aspx?idp=2312>

(French)

Our summary:

<http://www.timeanddate.com/news/time/morocco-starts-dst-2009.html>

From Alexander Krivenyshev (2009-03-17):
Here is a link to official document from Royaume du Maroc Premier Ministre,
Ministere de la Modernisation des Secteurs Publics

Under Article 1 of Royal Decree No. 455-67 of Act 23 safar 1387 (2 june 1967)
concerning the amendment of the legal time, the Ministry of Modernization of
Public Sectors announced that the official time in the Kingdom will be
advanced 60 minutes from Sunday 31 May 2009 at midnight.

http://www.mmsp.gov.ma/francais/Actualites_fr/PDF_Actualites_Fr/HeureEte_FR.pdf

http://www.worldtimezone.com/dst_news/dst_news_morocco03.html

From Steffen Thorsen (2010-04-13):
Several news media in Morocco report that the Ministry of Modernization
of Public Sectors has announced that Morocco will have DST from
2010-05-02 to 2010-08-08.

Example:

<http://www.lavieeco.com/actualites/4099-le-maroc-passera-a-l-heure-d-ete-gmt1-le-2-mai.html>

(French)
Our page:

<http://www.timeanddate.com/news/time/morocco-starts-dst-2010.html>

From Dan Abitol (2011-03-30):
...Rules for Africa/Casablanca are the following (24h format)
The 3rd april 2011 at 00:00:00, [it] will be 3rd april 1:00:00
The 31th july 2011 at 00:59:59, [it] will be 31th July 00:00:00
...Official links of change in morocco
The change was broadcast on the FM Radio
I ve called ANRT (telecom regulations in Morocco) at

+212.537.71.84.00

http://www.anrt.net.ma/fr/

They said that

http://www.map.ma/fr/sections/accueil/l_heure_legale_au_ma/view

is the official publication to look at.
They said that the decision was already taken.

More articles in the press

http://www.yabiladi.com/articles/details/5058/secret-l-heure-d-ete-maroc-lev

e.html

http://www.lematin.ma/Actualite/Express/Article.asp?id=148923

http://www.lavieeco.com/actualite/Le-Maroc-passe-sur-GMT%2B1-a-partir-de-dim
anche-prochain-5538.html

From Petr Machata (2011-03-30):
They have it written in English here:

http://www.map.ma/eng/sections/home/morocco_to_spring_fo/view

It says there that "Morocco will resume its standard time on July 31,
2011 at midnight." Now they don't say whether they mean midnight of
wall clock time (i.e. 11pm UTC), but that's what I would assume. It has
also been like that in the past.

From Alexander Krivenyshev (2012-03-09):
According to Infomédiaire web site from Morocco (infomediaire.ma),
on March 9, 2012, (in French) Heure l'heure d'été;
Le Maroc adopte officiellement l'heure d'été;

http://www.infomediaire.ma/news/maroc/heure-l%C3%A9gale-le-maroc-adopte-officiellement-lheure-d%C3%A9t%C3%A9

Governing Council adopted draft decree, that Morocco DST starts on
the last Sunday of March (March 25, 2012) and ends on
last Sunday of September (September 30, 2012)
except the month of Ramadan.

```
# or (brief)
# <a href="http://www.worldtimezone.com/dst_news/dst_news_morocco06.html">
# http://www.worldtimezone.com/dst_news/dst_news_morocco06.html
# </a>
```

```
# From Arthur David Olson (2012-03-10):
# The infomediaire.ma source indicates that the system is to be in
# effect every year. It gives 03H00 as the "fall back" time of day;
# it lacks a "spring forward" time of day; assume 2:00 XXX.
# Wait on specifying the Ramadan exception for details about
# start date, start time of day, end date, and end time of day XXX.
```

```
# From Christophe Tropamer (2012-03-16):
# Seen Morocco change again:
# <a href="http://www.le2uminutes.com/actualite.php">
# http://www.le2uminutes.com/actualite.php
# </a>
# "...&agrave; partir du dernier dimance d'avril et non fins mars,
# comme annonc&eacute; pr&eacute;c&eacute;demment."
```

```
# From Milamber Space Network (2012-07-17):
# The official return to GMT is announced by the Moroccan government:
# <a href="http://www.mmsp.gov.ma/fr/actualites.aspx?id=288">
# http://www.mmsp.gov.ma/fr/actualites.aspx?id=288 [in French]
# </a>
#
# Google translation, lightly edited:
# Back to the standard time of the Kingdom (GMT)
# Pursuant to Decree No. 2-12-126 issued on 26 Jumada (I) 1433 (April 18,
# 2012) and in accordance with the order of Mr. President of the
# Government No. 3-47-12 issued on 24 Sha'ban (11 July 2012), the Ministry
# of Public Service and Administration Modernization announces the return
# of the legal time of the Kingdom (GMT) from Friday, July 20, 2012 until
# Monday, August 20, 2012. So the time will be delayed by 60 minutes from
# 3:00 am Friday, July 20, 2012 and will again be advanced by 60 minutes
# August 20, 2012 from 2:00 am.
```

```
# RULE NAME FROM TO TYPE IN ON AT SAVE LETTER/S
```

```
Rule Morocco 1939 only - Sep 12 0:00 1:00 S
Rule Morocco 1939 only - Nov 19 0:00 0 -
Rule Morocco 1940 only - Feb 25 0:00 1:00 S
Rule Morocco 1945 only - Nov 18 0:00 0 -
Rule Morocco 1950 only - Jun 11 0:00 1:00 S
Rule Morocco 1950 only - Oct 29 0:00 0 -
Rule Morocco 1967 only - Jun 3 12:00 1:00 S
Rule Morocco 1967 only - Oct 1 0:00 0 -
Rule Morocco 1974 only - Jun 24 0:00 1:00 S
```

Rule Morocco 1974 only - Sep 1 0:00 0 -
Rule Morocco 1976 1977 - May 1 0:00 1:00 S
Rule Morocco 1976 only - Aug 1 0:00 0 -
Rule Morocco 1977 only - Sep 28 0:00 0 -
Rule Morocco 1978 only - Jun 1 0:00 1:00 S
Rule Morocco 1978 only - Aug 4 0:00 0 -
Rule Morocco 2008 only - Jun 1 0:00 1:00 S
Rule Morocco 2008 only - Sep 1 0:00 0 -
Rule Morocco 2009 only - Jun 1 0:00 1:00 S
Rule Morocco 2009 only - Aug 21 0:00 0 -
Rule Morocco 2010 only - May 2 0:00 1:00 S
Rule Morocco 2010 only - Aug 8 0:00 0 -
Rule Morocco 2011 only - Apr 3 0:00 1:00 S
Rule Morocco 2011 only - Jul 31 0 0 -
Rule Morocco 2012 max - Apr lastSun 2:00 1:00 S
Rule Morocco 2012 max - Sep lastSun 3:00 0 -
Rule Morocco 2012 only - Jul 20 3:00 0 -
Rule Morocco 2012 only - Aug 20 2:00 1:00 S

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Africa/Casablanca -0:30:20 - LMT 1913 Oct 26

0:00 Morocco WE%ST 1984 Mar 16

1:00 - CET 1986

0:00 Morocco WE%ST

Western Sahara

Zone Africa/El_Aaiun -0:52:48 - LMT 1934 Jan

-1:00 - WAT 1976 Apr 14

0:00 - WET

Mozambique

Zone NAME GMTTOFF RULES FORMAT [UNTIL]

Zone Africa/Maputo 2:10:20 - LMT 1903 Mar

2:00 - CAT

Namibia

The 1994-04-03 transition is from Shanks & Pottenger.

Shanks & Pottenger report no DST after 1998-04; go with IATA.

From Petronella Sibeene (2007-03-30) in

<<http://allafrica.com/stories/200703300178.html>>:

While the entire country changes its time, Katima Mulilo and other

settlements in Caprivi unofficially will not because the sun there

rises and sets earlier compared to other regions. Chief of

Forecasting Riaan van Zyl explained that the far eastern parts of

the country are close to 40 minutes earlier in sunrise than the rest

of the country.

#

From Paul Eggert (2007-03-31):

Apparently the Caprivi Strip informally observes Botswana time, but
we have no details. In the meantime people there can use Africa/Gaborone.

RULE NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Namibia 1994 max - Sep Sun>=1 2:00 1:00 S

Rule Namibia 1995 max - Apr Sun>=1 2:00 0 -

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Windhoek 1:08:24 - LMT 1892 Feb 8

1:30 - SWAT 1903 Mar # SW Africa Time

2:00 - SAST 1942 Sep 20 2:00

2:00 1:00 SAST 1943 Mar 21 2:00

2:00 - SAST 1990 Mar 21 # independence

2:00 - CAT 1994 Apr 3

1:00 Namibia WA%sT

Niger

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Niamey 0:08:28 - LMT 1912

-1:00 - WAT 1934 Feb 26

0:00 - GMT 1960

1:00 - WAT

Nigeria

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Lagos 0:13:36 - LMT 1919 Sep

1:00 - WAT

Reunion

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Indian/Reunion 3:41:52 - LMT 1911 Jun # Saint-Denis

4:00 - RET # Reunion Time

#

Scattered Islands (Iles Eparses) administered from Reunion are as follows.

The following information about them is taken from

Iles Eparses (www.oultre-mer.gouv.fr/domtom/ile.htm, 1997-07-22, in French;

no longer available as of 1999-08-17).

We have no info about their time zone histories.

#

Bassas da India - uninhabited

Europa Island - inhabited from 1905 to 1910 by two families

Glorioso Is - inhabited until at least 1958

Juan de Nova - uninhabited

Tromelin - inhabited until at least 1958

Rwanda

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Kigali 2:00:16 - LMT 1935 Jun

2:00 - CAT

```

# St Helena
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Atlantic/St_Helena -0:22:48 - LMT 1890 # Jamestown
  -0:22:48 - JMT 1951 # Jamestown Mean Time
    0:00 - GMT
# The other parts of the St Helena territory are similar:
# Tristan da Cunha: on GMT, say Whitman and the CIA
# Ascension: on GMT, says usno1995 and the CIA
# Gough (scientific station since 1955; sealers wintered previously):
# on GMT, says the CIA
# Inaccessible, Nightingale: no information, but probably GMT

# Sao Tome and Principe
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Sao_Tome 0:26:56 - LMT 1884
  -0:36:32 - LMT 1912 # Lisbon Mean Time
    0:00 - GMT

# Senegal
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Dakar -1:09:44 - LMT 1912
  -1:00 - WAT 1941 Jun
    0:00 - GMT

# Seychelles
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Indian/Mahe 3:41:48 - LMT 1906 Jun # Victoria
  4:00 - SCT # Seychelles Time
# From Paul Eggert (2001-05-30):
# Aldabra, Farquhar, and Desroches, originally dependencies of the
# Seychelles, were transferred to the British Indian Ocean Territory
# in 1965 and returned to Seychelles control in 1976. We don't know
# whether this affected their time zone, so omit this for now.
# Possibly the islands were uninhabited.

# Sierra Leone
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
# Whitman gives Mar 31 - Aug 31 for 1931 on; go with Shanks & Pottenger.
Rule SL 1935 1942 - Jun 1 0:00 0:40 SLST
Rule SL 1935 1942 - Oct 1 0:00 0 WAT
Rule SL 1957 1962 - Jun 1 0:00 1:00 SLST
Rule SL 1957 1962 - Sep 1 0:00 0 GMT
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Freetown -0:53:00 - LMT 1882
  -0:53:00 - FMT 1913 Jun # Freetown Mean Time
  -1:00 SL %s 1957
    0:00 SL %s

```

```

# Somalia
# Zone NAME GMTTOFF RULES FORMAT [UNTIL]
Zone Africa/Mogadishu 3:01:28 - LMT 1893 Nov
  3:00 - EAT 1931
  2:30 - BEAT 1957
  3:00 - EAT

# South Africa
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule SA 1942 1943 - Sep Sun>=15 2:00 1:00 -
Rule SA 1943 1944 - Mar Sun>=15 2:00 0 -
# Zone NAME GMTTOFF RULES FORMAT [UNTIL]
Zone Africa/Johannesburg 1:52:00 - LMT 1892 Feb 8
  1:30 - SAST 1903 Mar
  2:00 SA SAST
# Marion and Prince Edward Is
# scientific station since 1947
# no information

# Sudan
#
# From <a href="http://www.sunanews.net/sn13jane.html">
# Sudan News Agency (2000-01-13)
# </a>, also reported by Michael De Beukelaer-Dossche via Steffen Thorsen:
# Clocks will be moved ahead for 60 minutes all over the Sudan as of noon
# Saturday.... This was announced Thursday by Caretaker State Minister for
# Manpower Abdul-Rahman Nur-Eddin.
#
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Sudan 1970 only - May 1 0:00 1:00 S
Rule Sudan 1970 1985 - Oct 15 0:00 0 -
Rule Sudan 1971 only - Apr 30 0:00 1:00 S
Rule Sudan 1972 1985 - Apr lastSun 0:00 1:00 S
# Zone NAME GMTTOFF RULES FORMAT [UNTIL]
Zone Africa/Khartoum 2:10:08 - LMT 1931
  2:00 Sudan CA%sT 2000 Jan 15 12:00
  3:00 - EAT

# South Sudan
Zone Africa/Juba 2:06:24 - LMT 1931
  2:00 Sudan CA%sT 2000 Jan 15 12:00
  3:00 - EAT

# Swaziland
# Zone NAME GMTTOFF RULES FORMAT [UNTIL]
Zone Africa/Mbabane 2:04:24 - LMT 1903 Mar
  2:00 - SAST

```

```

# Tanzania
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Dar_es_Salaam 2:37:08 - LMT 1931
    3:00 - EAT 1948
    2:45 - BEAUT 1961
    3:00 - EAT

# Togo
# Zone NAME GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Lome 0:04:52 - LMT 1893
    0:00 - GMT

# Tunisia

# From Gwillim Law (2005-04-30):
# My correspondent, Risto Nykanen, has alerted me to another adoption of DST,
# this time in Tunisia. According to Yahoo France News
# <http://fr.news.yahoo.com/050426/5/4dumk.html>, in a story attributed to AP
# and dated 2005-04-26, "Tunisia has decided to advance its official time by
# one hour, starting on Sunday, May 1. Henceforth, Tunisian time will be
# UTC+2 instead of UTC+1. The change will take place at 23:00 UTC next
# Saturday." (My translation)
#
# From Oscar van Vlijmen (2005-05-02):
# LaPresse, the first national daily newspaper ...
# <http://www.lapresse.tn/archives/archives280405/actualites/lheure.html>
# ... DST for 2005: on: Sun May 1 0h standard time, off: Fri Sept. 30,
# 1h standard time.
#
# From Atef Loukil (2006-03-28):
# The daylight saving time will be the same each year:
# Beginning    : the last Sunday of March at 02:00
# Ending       : the last Sunday of October at 03:00 ...
# http://www.tap.info.tn/en/index.php?option=com_content&task=view&id=1188&Itemid=50

# From Steffen Thorsen (2009-03-16):
# According to several news sources, Tunisia will not observe DST this year.
# (Arabic)
# <a href="http://www.elbashayer.com/?page=viewn&nid=42546">
# http://www.elbashayer.com/?page=viewn&nid=42546
# </a>
# <a href="http://www.babnet.net/kiwidetail-15295.asp">
# http://www.babnet.net/kiwidetail-15295.asp
# </a>
#
# We have also confirmed this with the US embassy in Tunisia.
# We have a wrap-up about this on the following page:

```



```
# <a href="http://www.timeanddate.com/news/time/tunisia-cancels-dst-2009.html">
# http://www.timeanddate.com/news/time/tunisia-cancels-dst-2009.html
# </a>

# From Alexander Krivenyshev (2009-03-17):
# Here is a link to Tunis Afrique Presse News Agency
#
# Standard time to be kept the whole year long (tap.info.tn):
#
# (in English)
# <a href="http://www.tap.info.tn/en/index.php?option=com_content&task=view&id=26813&Itemid=157">
# http://www.tap.info.tn/en/index.php?option=com_content&task=view&id=26813&Itemid=157
# </a>
#
# (in Arabic)
# <a href="http://www.tap.info.tn/ar/index.php?option=com_content&task=view&id=61240&Itemid=1">
# http://www.tap.info.tn/ar/index.php?option=com_content&task=view&id=61240&Itemid=1
# </a>

# From Arthur David Olson (2009--3-18):
# The Tunis Afrique Presse News Agency notice contains this: "This measure is due to the fact
# that the fasting month of ramadan coincides with the period concerned by summer time.
# Therefore, the standard time will be kept unchanged the whole year long."
# So foregoing DST seems to be an exception (albeit one that may be repeated in the future).

# From Alexander Krivenyshev (2010-03-27):
# According to some news reports Tunisia confirmed not to use DST in 2010
#
# (translation):
# "The Tunisian government has decided to abandon DST, which was scheduled on
# Sunday...
# Tunisian authorities had suspended the DST for the first time last year also
# coincided with the month of Ramadan..."
#
# (in Arabic)
# <a href="http://www.moheet.com/show_news.aspx?nid=358861&pg=1">
# http://www.moheet.com/show_news.aspx?nid=358861&pg=1
# <a href="http://www.almadenahnews.com/newss/news.php?c=118&id=38036">
# http://www.almadenahnews.com/newss/news.php?c=118&id=38036
# or
# <a href="http://www.worldtimezone.com/dst_news/dst_news_tunis02.html">
# http://www.worldtimezone.com/dst_news/dst_news_tunis02.html

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Tunisia 1939 only - Apr 15 23:00s 1:00 S
Rule Tunisia 1939 only - Nov 18 23:00s 0 -
Rule Tunisia 1940 only - Feb 25 23:00s 1:00 S
Rule Tunisia 1941 only - Oct 6 0:00 0 -
```

Rule Tunisia 1942 only - Mar 9 0:00 1:00 S
Rule Tunisia 1942 only - Nov 2 3:00 0 -
Rule Tunisia 1943 only - Mar 29 2:00 1:00 S
Rule Tunisia 1943 only - Apr 17 2:00 0 -
Rule Tunisia 1943 only - Apr 25 2:00 1:00 S
Rule Tunisia 1943 only - Oct 4 2:00 0 -
Rule Tunisia 1944 1945 - Apr Mon>=1 2:00 1:00 S
Rule Tunisia 1944 only - Oct 8 0:00 0 -
Rule Tunisia 1945 only - Sep 16 0:00 0 -
Rule Tunisia 1977 only - Apr 30 0:00s 1:00 S
Rule Tunisia 1977 only - Sep 24 0:00s 0 -
Rule Tunisia 1978 only - May 1 0:00s 1:00 S
Rule Tunisia 1978 only - Oct 1 0:00s 0 -
Rule Tunisia 1988 only - Jun 1 0:00s 1:00 S
Rule Tunisia 1988 1990 - Sep lastSun 0:00s 0 -
Rule Tunisia 1989 only - Mar 26 0:00s 1:00 S
Rule Tunisia 1990 only - May 1 0:00s 1:00 S
Rule Tunisia 2005 only - May 1 0:00s 1:00 S
Rule Tunisia 2005 only - Sep 30 1:00s 0 -
Rule Tunisia 2006 2008 - Mar lastSun 2:00s 1:00 S
Rule Tunisia 2006 2008 - Oct lastSun 2:00s 0 -

Shanks & Pottenger give 0:09:20 for Paris Mean Time; go with Howse's
more precise 0:09:21.

Shanks & Pottenger say the 1911 switch was on Mar 9; go with Howse's Mar 11.

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Tunis 0:40:44 - LMT 1881 May 12
0:09:21 - PMT 1911 Mar 11 # Paris Mean Time
1:00 Tunisia CE%ST

Uganda

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Kampala 2:09:40 - LMT 1928 Jul
3:00 - EAT 1930
2:30 - BEAT 1948
2:45 - BEAUT 1957
3:00 - EAT

Zambia

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Lusaka 1:53:08 - LMT 1903 Mar
2:00 - CAT

Zimbabwe

Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Africa/Harare 2:04:12 - LMT 1903 Mar
2:00 - CAT

```

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.\"
.\" from: @(#)strftime.3 5.12 (Berkeley) 6/29/91
.\" $Id: strftime.3,v 1.4 1993/12/15 20:33:00 jtc Exp $
.\"
.TH NEWSTRFTIME 3
.SH NAME
strftime \- format date and time
.SH SYNOPSIS
.nf
.B #include <sys/types.h>
.B #include <time.h>
.PP
.B size_t strftime(buf, maxsize, format, timeptr)

```

```
.B char *buf;
.B size_t maxsize;
.B const char *format;
.B const struct tm *timeptr
```

```
.PP
```

```
.B cc ... -ltz
```

```
.fi
```

.SH DESCRIPTION

The

```
.I strftime\^
```

function formats the information from

```
.I timeptr\^
```

into the buffer

```
.I buf\^
```

according to the string pointed to by

```
.IR format\^ .
```

```
.PP
```

The

```
.I format\^
```

string consists of zero or more conversion specifications and ordinary characters.

All ordinary characters are copied directly into the buffer.

A conversion specification consists of a percent sign

```
.QI %
```

and one other character.

```
.PP
```

No more than

```
.I maxsize\^
```

characters are placed into the array.

If the total number of resulting characters, including the terminating null character, is not more than

```
.IR maxsize\^ ,
```

```
.I strftime\^
```

returns the number of characters in the array, not counting the terminating null.

Otherwise, zero is returned.

```
.PP
```

Each conversion specification is replaced by the characters as follows which are then copied into the buffer.

```
.TP
```

```
%A
```

is replaced by the locale's full weekday name.

```
.TP
```

```
%a
```

is replaced by the locale's abbreviated weekday name.

```
.TP
```

```
%B
```

is replaced by the locale's full month name.

.TP

%b or %h

is replaced by the locale's abbreviated month name.

.TP

%C

is replaced by the century (a year divided by 100 and truncated to an integer) as a decimal number (00-99).

.TP

%c

is replaced by the locale's appropriate date and time representation.

.TP

%D

is replaced by the date in the format %m/%d/%y.

.TP

%d

is replaced by the day of the month as a decimal number (01-31).

.TP

%e

is replaced by the day of month as a decimal number (1-31); single digits are preceded by a blank.

.TP

%F

is replaced by the date in the format %Y-%m-%d.

.TP

%G

is replaced by the ISO 8601 year with century as a decimal number.

.TP

%g

is replaced by the ISO 8601 year without century as a decimal number (00-99).

.TP

%H

is replaced by the hour (24-hour clock) as a decimal number (00-23).

.TP

%I

is replaced by the hour (12-hour clock) as a decimal number (01-12).

.TP

%j

is replaced by the day of the year as a decimal number (001-366).

.TP

%k

is replaced by the hour (24-hour clock) as a decimal number (0-23); single digits are preceded by a blank.

.TP

%l

is replaced by the hour (12-hour clock) as a decimal number (1-12); single digits are preceded by a blank.

.TP

%M

is replaced by the minute as a decimal number (00-59).

.TP

%m

is replaced by the month as a decimal number (01-12).

.TP

%n

is replaced by a newline.

.TP

%p

is replaced by the locale's equivalent of either AM or PM.

.TP

%R

is replaced by the time in the format %H:%M.

.TP

%r

is replaced by the locale's representation of 12-hour clock time using AM/PM notation.

.TP

%S

is replaced by the second as a decimal number (00-60).

.TP

%s

is replaced by the number of seconds since the Epoch, UTC (see mktime(3)).

.TP

%T

is replaced by the time in the format %H:%M:%S.

.TP

%t

is replaced by a tab.

.TP

%U

is replaced by the week number of the year (Sunday as the first day of the week) as a decimal number (00-53).

.TP

%u

is replaced by the weekday (Monday as the first day of the week) as a decimal number (1-7).

.TP

%V

is replaced by the week number of the year (Monday as the first day of the week) as a decimal number (01-53). If the week containing January 1 has four or more days in the new year, then it is week 1; otherwise it is week 53 of the previous year, and the next week is week 1.

.TP

%W

is replaced by the week number of the year (Monday as the first day of the week) as a decimal number (00-53).

.TP

`%w`
is replaced by the weekday (Sunday as the first day of the week)
as a decimal number (0-6).
.TP
`%X`
is replaced by the locale's appropriate time representation.
.TP
`%x`
is replaced by the locale's appropriate date representation.
.TP
`%Y`
is replaced by the year with century as a decimal number.
.TP
`%y`
is replaced by the year without century as a decimal number (00-99).
.TP
`%Z`
is replaced by the time zone name,
or by the empty string if this is not determinable.
.TP
`%z`
is replaced by the offset from UTC in the format `+HHMM` or `-HHMM` as appropriate,
with positive values representing locations east of Greenwich,
or by the empty string if this is not determinable.
.TP
`%%`
is replaced by a single `%`.
.TP
`%+`
is replaced by the date and time in `date(1)` format.
.SH SEE ALSO
`date(1)`,
`getenv(3)`,
`newctime(3)`,
`newtzset(3)`,
`time(2)`,
`tzfile(5)`

1.403 unzip 6.0

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1.404 urw-fonts 2.4 :10.el6

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1.408 util-linux 2.20.1

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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) 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  
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```

```
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```

```
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```

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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
```

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1.409 vconfig 1.9 :2.1

1.409.1 Available under license :

The MAC vlan stuff is primarily the work of, and is copy-righted (GPL) by:

```
# (C) Copyright 2001
# Alex Zeffertt, Cambridge Broadband Ltd, ajz@cambridgebroadband.com
```

However, I (Ben) reworked the MAC-VLAN code extensively, including re-writing all of the locking code. So, any complaints & bugs should come to me.

```
--Ben Greear (greearb@candelatech.com)
http://www.candelatech.com/~greear
```

1.410 vte 0.28.2

1.410.1 Available under license :

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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.

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1.411 wavpack 4.60.1-2

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1.412 Werkzeug 0.9.4

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1.413 wget 1.1.2

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Version 3, 29 June 2007

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Version 2, June 1991

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1.421 x11vnc 0.9.13

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1.422 xarchiver 0.5.2 :13

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1.423 xcb-util 0.3.6

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1.436 xorg-x11-apps 7.6 :6.el6

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1.437 xorg-x11-drv-acecad 1.5.0

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1.438 xorg-x11-drv-apm 1.2.3

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1.439 xorg-x11-drv-cirrus 1.3.2

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1.440 xorg-x11-drv-evdev 2.6.99.901

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1.441 xorg-x11-drv-fbdev 0.4.2

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1.444 xorg-x11-drv-i128 1.3.4

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1.445 xorg-x11-drv-i740 1.3.2

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1.446 xorg-x11-drv-mach64 6.9.0

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1.447 xorg-x11-drv-mga 1.4.13 :5.e15

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1.448 xorg-x11-drv-neomagic 1.2.5

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1.449 xorg-x11-drv-nv 2.1.18

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1.450 xorg-x11-drv-openchrome 0.2.904

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1.452 xorg-x11-drv-qxl 0.0.21

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1.460 xorg-x11-drv-vooodoo 1.2.4

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1.461 xorg-x11-drv-wacom 0.12.0

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1.467 yum-presto 0.7.1 :1

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```

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```
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```

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

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1.468 yum-utils 1.1.31

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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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1.469 zip 3.0 :2

1.469.1 Available under license :

This is the Debian prepackaged version of "zip", Info-Zip's fast, portable, zipfile compression utility.

This package is currently maintained by Santiago Vila <sanvila@debian.org> and built from sources obtained from:

<ftp://ftp.info-zip.org/pub/infozip/src/zip30.tgz>

The changes were fairly minimal, and consisted solely of adding various debian/* files to the distribution.

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1.470 zlib 1.2.5

1.470.1 Available under license :

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.5 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `example.c` which also tests that the library is working correctly. Another example is given in the file `minigzip.c`. The compression library itself is composed of all source files except `example.c` and `minigzip.c`.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to zlib@gzip.org, or to Gilles Vollant info@winimage.com for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson markn@ieee.org wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs' Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.5 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess pmqs@cpan.org is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling amk@amk.ca is available in Python 1.5 and later versions, see <http://www.python.org/doc/lib/module-zlib.html>.

zlib is built into tcl: <http://wiki.tcl.tk/4610>.

An experimental package to read and write files in `.zip` format, written on top of zlib by Gilles Vollant info@winimage.com, is available in the `contrib/minizip` directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see `win32/DLL_FAQ.txt`
- For 64-bit Irix, `deflate.c` must be compiled without any optimization. With `-O`, one `libpng` test fails. The test works in 32 bit mode (with the `-n32` compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

```
*/
```

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