



# Open Source Used In Unified Communications Manager Release 12.0(1)SU3

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## Contents

### **1.1 ACE+TAO+CIAO 6.1.1**

1.1.1 Available under license

### **1.2 acl 2.2.49 :6.el6**

1.2.1 Available under license

### **1.3 acl - libraries 2.2.49 :6.el6**

1.3.1 Available under license

### **1.4 acpid 1.0.10 :3.el6**

1.4.1 Available under license

### **1.5 alsa-lib 1.1.0 :4.el6**

1.5.1 Available under license

### **1.6 Apache Axis2 - Root 1.4**

1.6.1 Available under license

### **1.7 Apache Commons Digester 1.8.1**

1.7.1 Available under license

### **1.8 Apache Commons EL 1**

1.8.1 Notifications

1.8.2 Available under license

### **1.9 Apache Commons-Net 2.0**

1.9.1 Available under license

### **1.10 Apache Derby 10.5.3.0**

1.10.1 Available under license

### **1.11 Apache Derby Client JDBC Driver 10.14.2.0**

1.11.1 Available under license

### **1.12 Apache Derby Database Engine and Embedded JDBC Driver 10.14.2.0**

1.12.1 Available under license

### **1.13 Apache derby network server 10.14.2.0**

- 1.13.1 Available under license
- 1.14 Apache Derby Tools 10.14.2.0**
  - 1.14.1 Available under license
- 1.15 Apache http server 2.2.4**
  - 1.15.1 Available under license
- 1.16 Apache Jakarta RegExp 1.3**
  - 1.16.1 Notifications
  - 1.16.2 Available under license
- 1.17 Apache Mina 2.0.4**
  - 1.17.1 Available under license
- 1.18 Apache Standards Taglibs 1.1.2**
  - 1.18.1 Available under license
- 1.19 Apache Xerces 2.6.2.**
  - 1.19.1 Notifications
  - 1.19.2 Available under license
- 1.20 apache-xerces 2.9.1**
  - 1.20.1 Available under license
- 1.21 apcupsd 3.14.8 :1**
  - 1.21.1 Available under license
- 1.22 apcupsd 3.14.0 :1**
  - 1.22.1 Available under license
- 1.23 ASM 3.3 :asm-3.3**
  - 1.23.1 Available under license
- 1.24 asm 3.3**
  - 1.24.1 Available under license
- 1.25 asm 1.0.2**
  - 1.25.1 Available under license
- 1.26 ASM Tree 3.0**
  - 1.26.1 Available under license
- 1.27 AspectJ 1.6.12**
  - 1.27.1 Available under license
- 1.28 at 3.1.10 :48.el6**
  - 1.28.1 Available under license
- 1.29 atk 1.30.0 :1.el6**
  - 1.29.1 Available under license
- 1.30 attr 2.4.44 :7.el6**
  - 1.30.1 Available under license
- 1.31 attr\_libattr 2.4.44 :7.el6**
  - 1.31.1 Available under license



- 1.32 audit 1.7.7 :6.el5**
  - 1.32.1 Available under license
- 1.33 audit 2.4.5 :3.el6**
  - 1.33.1 Available under license
- 1.34 authconfig 6.1.12 :23.el6**
  - 1.34.1 Available under license
- 1.35 avahi 0.6.25 :15.el6**
  - 1.35.1 Available under license
- 1.36 axis 1.4**
  - 1.36.1 Available under license
- 1.37 axis-1.4 1.4**
  - 1.37.1 Available under license
- 1.38 axis2 1.6.2**
  - 1.38.1 Available under license
- 1.39 bash 4.1.2 :48.el6**
  - 1.39.1 Available under license
- 1.40 bc 1.06.95 :1.el6**
  - 1.40.1 Available under license
- 1.41 bcprov-jdk15on 1.51**
  - 1.41.1 Available under license
- 1.42 bind 9.8.2 :0.62.rc1.el6\_9.5**
  - 1.42.1 Available under license
- 1.43 binutils 2.20.51.0.2 :5.44.el6**
  - 1.43.1 Available under license
- 1.44 boost 1.55.0**
  - 1.44.1 Notifications
  - 1.44.2 Available under license
- 1.45 busybox 1.15.1 :21.el6\_6**
  - 1.45.1 Available under license
- 1.46 bzip2 1.0.5 :7.el6\_0**
  - 1.46.1 Available under license
- 1.47 c-ares 1.7.5**
  - 1.47.1 Available under license
- 1.48 ca-certificates 2015.2.6 :65.0.1.el6\_7**
  - 1.48.1 Available under license
- 1.49 cactus-12 1.5**
  - 1.49.1 Available under license
- 1.50 cairo 1.8.8 :6.el6\_6**
  - 1.50.1 Available under license

## **1.51 centos-release 6 :8.el6.centos.12.3**

1.51.1 Available under license

## **1.52 checkpolicy 2.0.22 :1.el6**

1.52.1 Available under license

## **1.53 chkconfig 1.3.49.5 :1.el6**

1.53.1 Available under license

## **1.54 Cobertura 1.9.4.1**

1.54.1 Available under license

## **1.55 Commons BeanUtils 1.8.2**

1.55.1 Available under license

## **1.56 Commons Collections 3.2.1**

1.56.1 Available under license

## **1.57 Commons JEXL 2.0**

1.57.1 Available under license

## **1.58 Commons Lang 3.1**

1.58.1 Available under license

## **1.59 Commons Logging 1.1.3**

1.59.1 Available under license

## **1.60 Commons SCXML 0.9**

1.60.1 Available under license

## **1.61 commons-cli 1.0**

1.61.1 Notifications

1.61.2 Available under license

## **1.62 commons-codec 1.6**

1.62.1 Available under license

## **1.63 commons-collections 3.2.2**

1.63.1 Available under license

## **1.64 commons-daemon 1.0.7**

1.64.1 Available under license

## **1.65 commons-el 1.0**

1.65.1 Notifications

1.65.2 Available under license

## **1.66 commons-fileupload 1.3.3**

1.66.1 Available under license

## **1.67 commons-lang3 3.1**

1.67.1 Available under license

## **1.68 commons-net 2.0 :DUPLICATE**

1.68.1 Available under license

## **1.69 commons-pool2 2.4.2**

- 1.69.1 Available under license
- 1.70 compat-db 4.6.21 :15.el6**
  - 1.70.1 Available under license
- 1.71 compat-gcc-296 2.96 :144.el6**
  - 1.71.1 Available under license
- 1.72 compat-gcc-32 3.2.3 :69.el6**
  - 1.72.1 Available under license
- 1.73 compat-glibc 2.5 :46.2**
  - 1.73.1 Available under license
- 1.74 compat-glibc 2.5 :46.2**
  - 1.74.1 Available under license
- 1.75 ConsoleKit 0.4.1 :6.el6**
  - 1.75.1 Available under license
- 1.76 coreutils 8.4 :46.el6**
  - 1.76.1 Available under license
- 1.77 cpio 2.10 :12.el6\_5**
  - 1.77.1 Available under license
- 1.78 cpufrequtils 007 :8.el6**
  - 1.78.1 Available under license
- 1.79 cpuspeed 1.5 :22.el6**
  - 1.79.1 Available under license
- 1.80 cracklib 2.8.16 :4.el6**
  - 1.80.1 Available under license
- 1.81 cronie 1.4.4 :15.el6\_7.1**
  - 1.81.1 Available under license
- 1.82 crontabs 1.10 :33.el6**
  - 1.82.1 Available under license
- 1.83 cryptsetup-luks 1.2.0 :11.el6**
  - 1.83.1 Available under license
- 1.84 csvjdbc .10**
  - 1.84.1 Available under license
- 1.85 cups 1.4.2 :74.el6**
  - 1.85.1 Available under license
- 1.86 curl 7.28.0**
  - 1.86.1 Available under license
- 1.87 curl 7.47.0**
  - 1.87.1 Available under license
- 1.88 curl 7.19.7 :52.el6**
  - 1.88.1 Available under license

- 1.89 curl 7.30.0**
  - 1.89.1 Available under license
- 1.90 CXF 2.7.4**
  - 1.90.1 Available under license
- 1.91 Cyrus SASL Library 2.1.23**
  - 1.91.1 Notifications
  - 1.91.2 Available under license
- 1.92 cyrus-sasl 2.1.23 :15.el6\_6.2**
  - 1.92.1 Available under license
- 1.93 dalvik 1 :froyo**
  - 1.93.1 Available under license
- 1.94 dash 0.5.5.1 :4.el6**
  - 1.94.1 Available under license
- 1.95 dash - mksignames.c 0.5.5.1 :4.el6**
  - 1.95.1 Available under license
- 1.96 db4 4.7.25 :20.el6\_7**
  - 1.96.1 Available under license
- 1.97 dbus 1.2.24 :8.el6\_6**
  - 1.97.1 Available under license
- 1.98 dbus-python 0.83.0 :6.1.el6**
  - 1.98.1 Available under license
- 1.99 device-mapper-multipath 0.4.9 :93.el6**
  - 1.99.1 Available under license
- 1.100 device-mapper-persistent-data 0.6.2 :0.1.rc7.el6**
  - 1.100.1 Available under license
- 1.101 dhcp 4.1.1 :51.P1.el6.centos**
  - 1.101.1 Available under license
- 1.102 diffutils 2.8.1 :28.el6**
  - 1.102.1 Available under license
- 1.103 Digester 1.8**
  - 1.103.1 Available under license
- 1.104 dmidecode 2.12 :7.el6**
  - 1.104.1 Available under license
- 1.105 dmraid 1.0.0.rc16 :11.el6**
  - 1.105.1 Available under license
- 1.106 dos2unix 3.1 :37.el6**
  - 1.106.1 Available under license
- 1.107 dosfstools 3.0.9 :4.el6**
  - 1.107.1 Available under license

- 1.108 dracut 004 :409.el6**
  - 1.108.1 Available under license
- 1.109 DualRPC 2.1.0**
  - 1.109.1 Available under license
- 1.110 DWR 2.0.3**
  - 1.110.1 Available under license
- 1.111 e2fsprogs 1.41.9**
  - 1.111.1 Available under license
- 1.112 e2fsprogs 1.41.12 :22.el6**
  - 1.112.1 Available under license
- 1.113 e2fsprogs-lib 1.41.9**
  - 1.113.1 Available under license
- 1.114 ecs 1.4.2**
  - 1.114.1 Notifications
  - 1.114.2 Available under license
- 1.115 eggdbus 0.6 :3.el6**
  - 1.115.1 Available under license
- 1.116 eject 2.1.5 :17.el6**
  - 1.116.1 Available under license
- 1.117 elfutils 0.164 :2.el6**
  - 1.117.1 Available under license
- 1.118 esapi 2.0.1**
  - 1.118.1 Available under license
- 1.119 ethtool 3.5 :6.el6**
  - 1.119.1 Available under license
- 1.120 expat 2.0.1 :13.el6\_8**
  - 1.120.1 Available under license
- 1.121 expect 5.44.1.15 :5.el6\_4**
  - 1.121.1 Available under license
- 1.122 FAT32 0.6**
  - 1.122.1 Available under license
- 1.123 file 5.04 :30.el6**
  - 1.123.1 Available under license
- 1.124 Filebeat 1.1.2**
  - 1.124.1 Available under license
- 1.125 findutils 4.4.2 :9.el6**
  - 1.125.1 Available under license
- 1.126 fipscheck 1.2.0 :7.el6**
  - 1.126.1 Available under license

- 1.127 flac 1.2.1 :7.el6\_6**
  - 1.127.1 Available under license
- 1.128 fontconfig 2.8.0 :5.el6**
  - 1.128.1 Available under license
- 1.129 FreeMarker 2.3.15**
  - 1.129.1 Available under license
- 1.130 freetds 0.95.69**
  - 1.130.1 Available under license
- 1.131 freetype 2.3.11 :17.el6**
  - 1.131.1 Available under license
- 1.132 fuse 2.8.3 :5.el6**
  - 1.132.1 Available under license
- 1.133 gamin 0.1.10 :9.el6**
  - 1.133.1 Available under license
- 1.134 gawk 3.1.7 :10.el6\_7.3**
  - 1.134.1 Available under license
- 1.135 gcc 4.4.7 :17.el6**
  - 1.135.1 Available under license
- 1.136 GConf2 2.28.0 :6.el6**
  - 1.136.1 Available under license
- 1.137 gd 2.0.35 :11.el6**
  - 1.137.1 Available under license
- 1.138 gdb 7.2 :90.el6**
  - 1.138.1 Available under license
- 1.139 gdbm 1.8.0 :39.el6**
  - 1.139.1 Available under license
- 1.140 gdk-pixbuf2 2.24.1 :6.el6\_7**
  - 1.140.1 Available under license
- 1.141 giflib 4.1.6 :3.1.el6**
  - 1.141.1 Available under license
- 1.142 glib2 2.28.8 :5.el6**
  - 1.142.1 Available under license
- 1.143 glibc 2.12 :1.209.el6\_9.2**
  - 1.143.1 Available under license
- 1.144 gmp 4.3.1 :10.el6**
  - 1.144.1 Available under license
- 1.145 GNU Trove 1.0.2**
  - 1.145.1 Available under license
- 1.146 gnupg2 2.0.14 :8.el6**

- 1.146.1 Available under license
- 1.147 gnutls 2.12.23 :21.el6**
  - 1.147.1 Available under license
- 1.148 gpm 1.20.6 :12.el6**
  - 1.148.1 Available under license
- 1.149 grep 2.20 :3.el6\_7.1**
  - 1.149.1 Available under license
- 1.150 groff 1.18.1.4 :21.el6**
  - 1.150.1 Available under license
- 1.151 Groovy 1.7.5**
  - 1.151.1 Available under license
- 1.152 grub 0.97 :94.el6\_7.1**
  - 1.152.1 Available under license
- 1.153 grubby 7.0.15 :7.el6**
  - 1.153.1 Available under license
- 1.154 gtk2 2.24.23 :8.el6**
  - 1.154.1 Available under license
- 1.155 gzip 1.3.12 :22.el6**
  - 1.155.1 Available under license
- 1.156 hal 0.5.14 :14.el6**
  - 1.156.1 Available under license
- 1.157 hal-info 20090716 :5.el6**
  - 1.157.1 Available under license
- 1.158 HAProxy 1.5.11 :2014/02/03**
  - 1.158.1 Available under license
- 1.159 hdparm 9.43 :4.el6**
  - 1.159.1 Available under license
- 1.160 hicolor-icon-theme 0.11 :1.1.el6**
  - 1.160.1 Available under license
- 1.161 hmaccalc 0.9.12 :2.el6**
  - 1.161.1 Available under license
- 1.162 httpclient 4.3.2**
  - 1.162.1 Available under license
- 1.163 httpclient 4.5.1**
  - 1.163.1 Available under license
- 1.164 httpcore 4.3.1**
  - 1.164.1 Available under license
- 1.165 httpcore 4.3.1**
  - 1.165.1 Available under license

### **1.166 httpcore 4.4.5**

1.166.1 Available under license

### **1.167 hwddata 0.233 :16.1.el6**

1.167.1 Available under license

### **1.168 icedtea-web 1.2.3 :4.el6\_4**

1.168.1 Available under license

### **1.169 icu4c 49.1.2**

1.169.1 Available under license

### **1.170 iotop 0.3.2 :7.el6**

1.170.1 Available under license

### **1.171 iproute 2.6.32 :54.el6**

1.171.1 Available under license

### **1.172 iptables 1.4.7 :16.el6**

1.172.1 Available under license

### **1.173 iputils 20071127 :21.el6**

1.173.1 Available under license

### **1.174 irqbalance 1.0.7 :8.el6**

1.174.1 Available under license

### **1.175 Jackson-annotations 2.1.1**

1.175.1 Available under license

### **1.176 jackson-core 2.1.1**

1.176.1 Available under license

### **1.177 jackson-databind 2.1.1**

1.177.1 Available under license

### **1.178 Jakarta ECS 1.4.2**

1.178.1 Notifications

1.178.2 Available under license

### **1.179 jakarta-taglibs 1.1.2**

1.179.1 Available under license

### **1.180 jasper 1.900.1 :21.el6\_9**

1.180.1 Available under license

### **1.181 Java Activation Framework 1.1**

1.181.1 Available under license

### **1.182 Java Assist 3.9.0**

1.182.1 Available under license

### **1.183 java-1.5.0-gcj 1.5.0.0 :29.1.el6**

1.183.1 Available under license

### **1.184 java-1.7.0-openjdk 1.7.0.141 :2.6.10.1.el6\_9**

1.184.1 Available under license



- 1.185 java-1.7.0-openjdk\_AGPLv3 1.7.0.141 :2.6.10.1.el6\_9**
  - 1.185.1 Available under license
- 1.186 java-1.7.0-openjdk\_GPLv3 1.7.0.141 :2.6.10.1.el6\_9**
  - 1.186.1 Available under license
- 1.187 java-1.7.0-openjdk\_LGPLv2 1.7.0.141 :2.6.10.1.el6\_9**
  - 1.187.1 Available under license
- 1.188 java\_cup 0.10k :5.el6**
  - 1.188.1 Available under license
- 1.189 java\_cup\_script 0.10k :5.el6**
  - 1.189.1 Available under license
- 1.190 JavaBeans Activation Framework (JAF) 1.1**
  - 1.190.1 Available under license
- 1.191 javacsv 2.0**
  - 1.191.1 Available under license
- 1.192 javahelp2 2.0.05.ds1-3**
  - 1.192.1 Available under license
- 1.193 Javassist 3.20.0-GA**
  - 1.193.1 Available under license
- 1.194 javassist 3.20.0**
  - 1.194.1 Available under license
- 1.195 Jaxen 1.0**
  - 1.195.1 Available under license
- 1.196 jaxrs-ri-2.17 2.17**
  - 1.196.1 Available under license
- 1.197 JCraft JSch 0.1.52**
  - 1.197.1 Available under license
- 1.198 JDOM 1.0**
  - 1.198.1 Available under license
- 1.199 jedis 2.9.0**
  - 1.199.1 Available under license
- 1.200 Jersey 0.7 :ea**
  - 1.200.1 Available under license
- 1.201 Jersey 1.0.2**
  - 1.201.1 Available under license
- 1.202 jersey-bundle 1.15**
  - 1.202.1 Available under license
- 1.203 jersey-container-servlet 2.26**
- 1.204 jersey-container-servlet-core 2.26**
- 1.205 jersey-multipart 1.15**

- 1.205.1 Available under license
- 1.206 jettison 1.1**
  - 1.206.1 Available under license
- 1.207 Jetty 6.1.14**
  - 1.207.1 Available under license
- 1.208 jpackage-utils 1.7.5 :3.16.el6**
  - 1.208.1 Available under license
- 1.209 jpcap 1.16**
  - 1.209.1 Available under license
- 1.210 jquery 1.2.6**
  - 1.210.1 Available under license
- 1.211 jquery UI 1.5**
  - 1.211.1 Available under license
- 1.212 JSch 0.1.50**
  - 1.212.1 Available under license
- 1.213 json-smart 2.1.1**
  - 1.213.1 Available under license
- 1.214 jsr311-api 1.1.1**
  - 1.214.1 Available under license
- 1.215 jTDS 1.2.2**
  - 1.215.1 Available under license
- 1.216 Jtds 1.2.2**
  - 1.216.1 Available under license
- 1.217 Junit 4.8.2**
  - 1.217.1 Available under license
- 1.218 kbd 1.15 :11.el6**
  - 1.218.1 Available under license
- 1.219 kernel 2.6.32 :696.el6**
  - 1.219.1 Available under license
- 1.220 kexec-tools 2.0.0 :300.el6**
  - 1.220.1 Available under license
- 1.221 keyutils 1.4 :5.el6**
  - 1.221.1 Available under license
- 1.222 krb5 1.6.3**
  - 1.222.1 Available under license
- 1.223 krb5 1.10.3 :57.el6**
  - 1.223.1 Available under license
- 1.224 ksh 20120801 :33.el6**
  - 1.224.1 Available under license

- 1.225 ldns 1.6.16 :7.el6.2**
  - 1.225.1 Available under license
- 1.226 Legion of the Bouncy Castle Java Cryptography APIs 1.54**
  - 1.226.1 Available under license
- 1.227 less 436 :13.el6**
  - 1.227.1 Available under license
- 1.228 libaio 0.3.107 :10.el6**
  - 1.228.1 Available under license
- 1.229 libart\_lgpl 2.3.20 :5.1.el6**
  - 1.229.1 Available under license
- 1.230 libasyncns 0.8 :1.1.el6**
  - 1.230.1 Available under license
- 1.231 libattr 2.4.44 :7.el6**
  - 1.231.1 Available under license
- 1.232 libcap 2.16 :5.5.el6**
  - 1.232.1 Available under license
- 1.233 libcap-ng 0.6.4 :3.el6\_0.1**
  - 1.233.1 Available under license
- 1.234 libcgroupl 0.40.rc1 :17.el6\_7**
  - 1.234.1 Available under license
- 1.235 libdrm 2.4.65 :2.el6**
  - 1.235.1 Available under license
- 1.236 libedit 2.11 :4.20080712cvs.1.el6**
  - 1.236.1 Available under license
- 1.237 libevent 1.4.13 :4.el6**
  - 1.237.1 Available under license
- 1.238 libevent2 2.0.21 :2.el6**
  - 1.238.1 Available under license
- 1.239 libffi 3.0.5 :3.2.el6**
  - 1.239.1 Available under license
- 1.240 libfontenc 1.0.5 :2.el6**
  - 1.240.1 Available under license
- 1.241 libgpg-error 1.7 :4.el6**
  - 1.241.1 Available under license
- 1.242 libICE 1.0.6 :1.el6**
  - 1.242.1 Available under license
- 1.243 libIDL 0.8.13 :2.1.el6**
  - 1.243.1 Available under license
- 1.244 libidn 1.18 :2.el6**

1.244.1 Available under license

**1.245 Libidn 0.52**

1.245.1 Available under license

**1.246 Libidn - cli 0.52**

1.246.1 Available under license

**1.247 libidn\_libs 1.18 :2.el6**

1.247.1 Available under license

**1.248 libjpeg-turbo 1.2.1 :3.el6\_5**

1.248.1 Notifications

1.248.2 Available under license

**1.249 libnih 1.0.1 :7.el6**

1.249.1 Available under license

**1.250 libodbc++ 0.2.3**

1.250.1 Available under license

**1.251 libogg 1.1.4 :2.1.el6**

1.251.1 Available under license

**1.252 libpcap 1.4.0 :4.20130826git2dbcaa1.el6**

1.252.1 Available under license

**1.253 libpciaccess 0.13.4 :1.el6**

1.253.1 Available under license

**1.254 libpng 1.2.49 :2.el6\_7**

1.254.1 Available under license

**1.255 Libpq 9.1 :10**

1.255.1 Available under license

**1.256 libreswan 3.15 :5.3.el6**

1.256.1 Available under license

**1.257 libselinux 2.0.94 :7.el6**

1.257.1 Available under license

**1.258 libsemanage 2.0.43 :5.1.el6**

1.258.1 Available under license

**1.259 libsepol 2.0.41 :4.el6**

1.259.1 Available under license

**1.260 libSM 1.2.1 :2.el6**

1.260.1 Available under license

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```

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```

```
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```

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# 1.6 Apache Axis2 - Root 1.4

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`analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`  
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analysis/common/src/java/net/sf/snowball  
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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,  
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analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt  
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fin/FinnishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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\* Software Development Group  
\* National Center for Supercomputing Applications  
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\* 605 E. Springfield, Champaign, IL 61820  
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Before building Xerces, you need the source package and tools  
package available from the Apache XML Project's distribution  
web page:

<http://xml.apache.org/dist/xerces-j/>

Download both the Xerces-J-src.X.Y.Z.zip and Xerces-J-tools.X.Y.Z.zip  
files for the appropriate Xerces release (where "X.Y.Z" is the version  
number) and extract them in the same directory. If you are using Unix,  
download the equivalent .tar.gz files instead of the .zip files.

You also need to have a Java Development Kit (JDK) version 1.2 (or higher) installed on your system. Before initiating any part of the build, set the JAVA\_HOME environment variable to the installation directory of your JDK.

The Ant program is used to build everything in Xerces, including the documentation. This tool, and the others needed (besides the pre-requisite JDK) are contained within the tools package. To make building the packages easier, a Windows batch file and a Unix shell script are included.

If you only want to compile the source code and make the JAR files, run the following command on Windows:

```
build.bat jars
```

or from Unix (make sure that build.sh is executable):

```
build.sh jars
```

This will compile all of the source code and generate the JAR files that are available as part of the binary package. After building, these files will be located in the build/ directory.

If you want to build everything, including the documentation, run the build batch file (or shell script) specifying the "all" target instead of "jars".

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<!--
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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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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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### 1.23.1 Available under license :

/\*\*

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 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN  
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## 1.25 asm 1.0.2

### 1.25.1 Available under license :

```
<!DOCTYPE html>
<html>
<head>

<title>Scala License | The Scala Programming Language</title>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>

<link rel="icon" type="image/png" href="/resources/favicon.ico">
<link rel="shortcut icon" type="image/png" href="/resources/favicon.ico">

<!-- prettify CSS (corresponding js at footer)-->
<link rel="stylesheet" href="/resources/css/prettify.css" type="text/css" />

<!-- Bootstrap CSS -->
<link rel="stylesheet" href="/resources/css/bootstrap.css" type="text/css" />

<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,600,700,900,400italic,700italic'
rel='stylesheet' type='text/css'>

<!-- Custom stylesheet -->
<link rel="stylesheet" href="/resources/css/main.css" type="text/css" />

<!-- Typekit (should stay at top of page, do not move to footer)-->
<script type="text/javascript" src="//use.typekit.net/abh3wgk.js"></script>
<script type="text/javascript">try{Typekit.load();}catch(e){}</script>

<!-- Atom feeds -->
<link rel="alternate" type="application/atom+xml" title="News Feed" href="/feed/index.xml" />
<link rel="alternate" type="application/atom+xml" title="Blog Feed" href="/feed/blog.xml" />

</head>
<body>

<div class="darkstrip"></div>

<div class="darkbluetopbar">
<div class="container" style="height: 100%">
<div class="navbar-wrap">
```

```

<div class="container" style="position: relative; height: 100%;">
  <div class="scala-logo">
    <a href="/index.html"></a>
  </div>
  <ul class="nav">
<li><a href="/documentation/">Documentation</a></li>
<li><a href="/download/">Download</a></li>
<li><a href="/community/">Community</a></li>
<li><a href="/contribute/">Contribute</a></li>
<li id="source-code" >
  <a href="http://github.com/scala/scala"></a>
  <div class="toptip">Source Code</div>
</li>
<li id="scala-lang-twitter">
  <a href="http://twitter.com/scala_lang"></a>
  <div class="toptip">Scala on Twitter</div>
</li>
</ul>

  </div>
</div>
</div>
</div>

<div class="midbluebar">
<div class="container">
  <h1 id="page-title">Scala License</h1>
</div>
</div>

<div class="page-container">
<div class="container" style="min-height: 540px;">
  <div class="main-page-column">

<p>Scala is licensed under the <a href="http://opensource.org/licenses/BSD-3-Clause">BSD 3-Clause
License</a>.</p>

<h2 id="scala-license">Scala License</h2>

<p>Copyright (c) 2002-<span class="current-year"> </span> EPFL<br />
Copyright (c) 2011-<span class="current-year"> </span> Lightbend, Inc.</p>

<p>All rights reserved.</p>

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are permitted provided that the following conditions are met:</p>

```

```
<ul>
  <li>Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.</li>
  <li>Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.</li>
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</ul>
```

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EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p>
```

```
</div>
<div class="sidebar">
  <div class="sidebar-inner">
    <div class="contents">Contents</div>
    <div id="toc"></div>
    <br/>
    <div class="alert-info">
      <a href="/contribute/documentation.html#updating-scala-langorg"><p><strong>Problem with this
page?</strong>
      Please help us fix it!</p></a>
    </div>
  </div>
</div>
<div style="clear:both"></div>

</div>
</div>
```

```
<div class="footer">
  <div class="container">
    <ul>
      <li><h5>Documentation</h5></li>
      <li><a href="/documentation/getting-started.html">Getting Started</a></li>
      <li><a href="http://www.scala-lang.org/api/current/index.html#package">API</a></li>
```

```

<li><a href="http://docs.scala-lang.org/overviews/">Overviews/Guides</a></li>
<li><a href="http://docs.scala-lang.org/tutorials/">Tutorials</a></li>
<li><a href="/files/archive/spec/2.12/">Language Specification</a></li>
</ul>
<ul>
<li><h5>Download</h5></li>
<li><a href="/download/">Current Version</a></li>
<li><a href="/download/all.html">All Versions</a></li>
</ul>
<ul>
<li><h5>Community</h5></li>
<li><a href="/community/">Community</a></li>
<li><a href="/community/index.html#mailing-lists">Mailing Lists</a></li>
<li><a href="/community/index.html#chat-rooms">Chat Rooms & More</a></li>
<li><a href="/community/index.html#community-libraries-and-tools">Libraries and Tools</a></li>
<li><a href="https://scala.epfl.ch/">The Scala Center</a></li>
</ul>
<ul>
<li><h5>Contribute</h5></li>
<li><a href="/contribute">How to Help</a></li>
<li><a href="/contribute/bug-reporting-guide.html">Report an Issue</a></li>
</ul>
<ul>
<li><h5>Scala</h5></li>
<li><a href="/blog">Blog</a></li>
<li><a href="/news">Archive</a></li>
<li><a href="/conduct.html">Code of Conduct</a></li>
<li><a href="/license.html">License</a></li>
</ul>
</div>
<div class="container">
<div class="copyright">
<a style="float: left; margin-right: 8px;" href="http://www.epfl.ch"></a>
<p style="float: left;"><br/>Copyright &copy; 2002-<span class="current-year"></span> École Polytechnique
Fédérale de Lausanne
(EPFL)<br/> Lausanne, Switzerland</p>
</div>
<div class="scala-logo-footer">

</div>
</div> <!-- container -->
</div> <!-- footer -->

<!-- prettify js -->
<script src="/resources/js/vendor/prettify/prettify.js" type="text/javascript" ></script>
<script src="/resources/js/vendor/prettify/lang-scala.js" type="text/javascript" ></script>

```

```
<!-- jquery js -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.8.3/jquery.min.js" integrity="sha384-
lifoBlbdwizTl3Yoe612uhI3AcOam/QtWkozF7SuiACaf5UJl5reOYu4MigVxrCH"
crossorigin="anonymous"></script>
```

```
<!-- modernizr js -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/modernizr/2.6.2/modernizr.min.js" integrity="sha256-
zyXsGPIj9MUc4RKKQuZEzcIkTYj4nRpRRA2dvlH07+g=" crossorigin="anonymous"></script>
```

```
<!-- retina js -->
<script src="/resources/js/vendor/retina.js" type="text/javascript" ></script>
```

```
<!-- backstretch js -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-backstretch/2.0.4/jquery.backstretch.min.js"
integrity="sha256-V52dl3OFjoY+fYAkifhLJ7f1V7mZAKPGCQoWzoQxrEU="
crossorigin="anonymous"></script>
```

```
<!-- Bootstrap JS -->
<script src="https://maxcdn.bootstrapcdn.com/twitter-bootstrap/2.2.1/js/bootstrap.min.js" integrity="sha384-
qJ8AGIuPqPo4I2zhyRYO6vQaJrGBbTpliXGihDsGpfMCHJD0IKH0gkPQTGD5ek3"
crossorigin="anonymous"></script>
```

```
<!-- table of contents JS -->
<script src="/resources/js/vendor/toc.js" type="text/javascript" ></script>
<script type="text/javascript">
$(document).ready(function(){
    $('#toc').toc({exclude: 'h1, h5, h6', context: '', autoId: true, numerate: false});
    function moveScroller() {
        if ($.sidebar).length == 0)
            return;
        var a = function() {
            var topOfScroll = $(window).scrollTop();
            var topOfSidebar = $(".sidebar").offset().top;
            var sidebarInner = $(".sidebar-inner");
            var bottomOfSidebarInner = $(".sidebar-inner").offset().top + $(".sidebar-inner").outerHeight();
            var topOfFooter = $(".footer").offset().top - 10;
            var footerHeight = $(".footer").outerHeight();
            if (topOfScroll > topOfSidebar) {
                if (bottomOfSidebarInner > topOfFooter) {
                    sidebarInner.css({position:"fixed",bottom:footerHeight,top:""});
                } else {
                    sidebarInner.css({position:"fixed",top:"10px",bottom:""});
                }
            } else {
                sidebarInner.css({position:"relative",top:""});
            }
        };
    };
};
```

```

        $(window).scroll(a);a()
    }
    moveScroller();
})
</script>

<!-- Custom javascript -->
<script src="/resources/js/main.js" type="text/javascript"></script>
</body>
</html>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<meta content="text/html; charset=iso-8859-1" http-equiv="Content-Type">
<meta content="en" http-equiv="Content-Language">
<title>ASM - License</title>
<meta name="Description" content="ASM is a very small and very fast Java bytecode manipulation framework.">
<meta name="Keywords" content="ASM,bytecode,manipulation,Java,open,source,free,software,BSD">
<meta name="Reply-to" content="webmaster@ow2.org">
<meta name="Owner" content="OW2">
<meta name="Robots" content="index, follow">
<meta content="asm-team" name="author">
<meta content="asm-team@objectweb.org" name="email">
<script src="/js/objectweb.js" type="text/javascript"></script>
<link type="text/css" href="/common.css" rel="stylesheet" id="stylesheet">
<link type="image/x-icon" href="/images/favicon.ico" rel="icon">
<link type="image/x-icon" href="/images/favicon.ico" rel="shortcut icon">
</head>
<body marginheight="0" marginwidth="0" topmargin="0" leftmargin="0"
onload="MM_preloadImages('/images/menu/boutonok2.gif','/images/menu/boutonsearch2.gif','/images/menu/bout
onprint2.gif','/images/menu/boutonsubscribe2.gif')" bgcolor="#FFFFFF" class="bodyproject">
<table cellpadding="0" cellspacing="0" width="100%" border="0">
<tr>
<td valign="top" width="500"><a href="http://www.ow2.org/"></a></td><td valign="top">
<table cellpadding="0" cellspacing="0" width="100%" border="0">
<tr>
<td valign="top"></td><td valign="top"
width="150"></td>
</tr>
<tr>
<td valign="top">
<table cellpadding="5" cellspacing="0" border="0">
<tr>

```

```

<td valign="top"></td><td valign="top"></td><td valign="top"></td><td valign="top"></td>
</tr>
</table>
</td><td style="line-height: 20px;" valign="top" width="150">
<form target="_blank" action="http://www.google.com/custom" method="get">
<input name="cof"
value="S:http://www.ow2.org/GL:0;AH:center;LH:70;L:http://www.ow2.org/xwiki/skins/ow2/logo.png;LW:500;A
WFID:48faba182d01f379;" type="hidden"><input name="domains" value="ow2.org;mail-archive.ow2.org"
type="hidden"><input name="sitesearch" value="ow2.org" type="hidden">
<table rowspan="0" colspan="0">
<tr>
<td><input onblur="if (this.value=='') this.value='search'" onfocus="this.value='' value='' maxlength="255"
size="10" name="q" type="text"></td><td><input alt="Submit"
onmouseover="MM_swapImage('search','./images/menu/boutonsearch2.gif',1)"
onmouseout="MM_swapImgRestore()" src="./images/menu/boutonsearch1.gif" id="search" name="sa"
type="image"></td><td><a alt="Submit"
onmouseover="MM_swapImage('print','./images/menu/boutonprint2.gif',1)"
onmouseout="MM_swapImgRestore()" target="_blank" href="license_print.html"></a></td>
</tr>
</table>
<p class="glose">
<strong><a href="http://www.google.com/advanced_search?q="+site:ow2.org" target="_blank"
class="lienglose">Advanced Search</a></strong> - Powered by Google</p>
</form>
</td>
</tr>
</table>
</td>
</tr>
<tr>
<td width="100%" bgcolor="#FF6600" valign="bottom" colspan="2">
   <a target="_blank" class="barre" href="http://www.ow2.org/">&nbsp;&nbsp;&nbsp;Consortium&nbsp;&nbsp;&nbsp;</a>
   &nbsp;&nbsp;<a target="_blank" class="barre"
href="http://www.ow2.org/xwiki/bin/view/Activities/Fundamentals">&nbsp;&nbsp;&nbsp;Activities&nbsp;&nbsp;&nbsp;</a>
   &nbsp;&nbsp;<a target="_blank" class="barre"
href="http://www.ow2.org/xwiki/bin/view/Activities/Projects">&nbsp;&nbsp;&nbsp;Projects&nbsp;&nbsp;&nbsp;</a>
   &nbsp;&nbsp;<a target="_blank" class="barre" href="http://forge.objectweb.org/">&nbsp;&nbsp;&nbsp;Forge&nbsp;&nbsp;&nbsp;</a>
   &nbsp;&nbsp;<a target="_blank" class="barre"
href="http://www.ow2.org/view/Events/">&nbsp;&nbsp;&nbsp;Events&nbsp;&nbsp;&nbsp;</a></td>
</tr>
</table>
<table cellpadding="0" cellspacing="0" border="0" width="100%" summary="">
<tr>
<td valign="top" width="20"></td><td valign="top"
width="160"><br>
<p style="font-size: 16px; font-weight: bold; color: #FF6600; border-bottom: 4px solid #0099CC">ASM</p>
<br>

```



```
<div class="OW2menu">
<div class="OW2menutitre">ASM</div>
  &middot;&nbsp;<a class="menu" target="_self" href="/index.html">Home</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/download/index.html">Download</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/eclipse/index.html">Eclipse plugin</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="http://download.forge.objectweb.org/asm/asm4-
guide.pdf">User Guide</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="http://mail.ow2.org/www/info/asm">Mailing Lists</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/license.html">License</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/history.html">History</a>
<br>
</div>
```

```
<br>
<div class="OW2menu">
<div class="OW2menutitre">ASMDEX</div>
  &middot;&nbsp;<a class="menu" target="_self" href="/asmdex-index.html">Home</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/download/asmdex-index.html">Download</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="http://mail.ow2.org/www/info/asm">Mailing Lists</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/asmdex-license.html">License</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/asmdex-history.html">History</a>
<br>
</div>
```

```
<br>
<div class="OW2menu">
<div class="OW2menutitre">Developers' Corner</div>
  &middot;&nbsp;<a class="menu" target="_self" href="http://forge.objectweb.org/projects/asm/">ObjectWeb
Forge Site</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self"
href="http://forge.objectweb.org/plugins/scmsvn/index.php?group_id=23">SVN Repository</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="http://forge.objectweb.org/tracker/?group_id=23">Issue
Tracker</a>
<br>
  &middot;&nbsp;<a class="menu" target="_self" href="/doc/developer-guide.html">Developer Guide</a>
<br>
</div>
<br>
```

```
<div class="OW2menu">
<div class="OW2menutitre">About</div>
  &nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/users.html">Users</a>
<br>
  &nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="/team.html">Team</a>
<br>
  &nbsp;&nbsp;&nbsp;<a class="menu" target="_self" href="mailto:asm-team@objectweb.org">Contacts</a>
<br>
</div>
<br>
</td><td align="left" width="100%" valign="top">
<h1>Project License</h1>
```

```
<pre>
```

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```
</pre>
```

```
</td><td valign="top" width="10"></td>
```

```

</tr>
<tr>
<td valign="top" width="20"></td><td valign="top"
width="160"></td><td valign="top"><br>
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href="http://wiki.opalval.ow2.org/xwiki/bin/view/Main/Contact">contact</a> | <a
href="mailto:webmaster@ow2.org">webmaster</a> | Last modified at 2016-12-23 11:07 AM</address>
</td><td valign="top" width="10"></td>
</tr>
</table>
<br>
</body>
</html>

```

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## 1.30 attr 2.4.44 :7.e16

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## 1.35 avahi 0.6.25 :15.e16

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That's all there is to it!

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

```
# $Id$
```

```
#
```

```
# This file is part of avahi.
```

```
#
```

```
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# under the terms of the GNU Lesser General Public License as  
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```

```
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# Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307  
# USA.
```

```
set -e
```

```
# Command line arguments:
```

```
# $1 event that happened:
```

```
# BIND: Successfully claimed address
```

```
# CONFLICT: An IP address conflict happened
```

```
# UNBIND: The IP address is no longer needed
```

```
# STOP: The daemon is terminating
```

```
# $2 interface name
```

```
# $3 IP address
```

```
# We have the BSD ifconfig tool
```

```
case "$1" in
```

```
BIND)
```

```
    ifconfig "$2" "$3"/16
```

```
;;
```



```
CONFLICT|STOP|UNBIND)
  ifconfig "$2" "$3"/16 delete
  ;;

*)
  echo "Unknown event $1" >&2
  exit 1
  ;;
esac

exit 0
```

## 1.36 axis 1.4

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@c ispell-local-pdict: "ispell-dict"

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Version 3, 29 June 2007

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id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <spcecdt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700

In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)

X-Www: <http://www.armory.com/~spcecdt/>

X-Mailer: Mail User's Shell (7.2.5 10/14/92)

To: chet@po.cwru.edu

Subject: Re: ksh scripts

Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on <ftp.armory.com>; you might  
want to pick up the latest versions before modifying them.

John

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

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
```

```
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400
```

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

That's great!

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

-----

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10



Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP

(8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT

Message-Id: <9505251618.AA16031@tepui.cli.com>

From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu

Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

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

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

It should serve as a pretty good example of how to get carried away. :-)

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## 1.42 bind 9.8.2 :0.62.rc1.el6\_9.5

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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<!-- \$Id: copyright.xml,v 1.8 2009-07-10 23:47:58 tbox Exp \$ -->

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

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

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

<xsl:param name="text"/>

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

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

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

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

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

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

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

</xsl:call-template>

</xsl:if>

</xsl:template>

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

<xsl:text>

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

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

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
```

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## 1.43 binutils 2.20.51.0.2 :5.44.e16

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

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

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

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

entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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

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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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@appendixsubsec Preamble

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

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

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

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

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

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

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

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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

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

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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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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:

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

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@heading END OF TERMS AND CONDITIONS  
@end iftex  
@ifinfo  
@center END OF TERMS AND CONDITIONS  
@end ifinfo

@page  
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```
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@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

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```
@end smallexample
```

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

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

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Version 2.1, February 1999

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

That's all there is to it!  
(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is  
not meant as a slight. I just don't know about it. Email me,  
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the documentation, and info on specific files will go into an AUTHORS  
file, as requested by the FSF.

+++++

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

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

K. Richard Pixley maintained gas for a while, adding various  
enhancements and many bug fixes, including merging support for several  
processors, breaking gas up to handle multiple object file format  
backends (including heavy rewrite, testing, an integration of the coff  
and b.out backends), adding configuration including heavy testing and  
verification of cross assemblers and file splits and renaming,  
converted gas to strictly ansi C including full prototypes, added

support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

## 1.44 boost 1.55.0

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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'.
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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bzip2 applet in busybox is based on lightly-modified source of bzip2 version 1.0.4. bzip2 source is distributed

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=====  
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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

/\*

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\* Hongjiu Lu and Mitch D'Souza

\*

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\*/

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From gsf@research.att.com Wed Mar 1 20:30:54 2006

Return-Path: <gsf@research.att.com>

X-Original-To: mps@bridge.intra

Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1])  
by localhost (Postfix) with ESMTP id B8C814E4F  
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)  
Received: from mail.bridge.intra ([127.0.0.1])  
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)  
with LMTP id 05987-03 for <mps@bridge.intra>;  
Wed, 1 Mar 2006 20:30:42 +0100 (CET)  
Received: from pop.gmx.net (localhost [127.0.0.1])  
by mail.bridge.intra (Postfix) with ESMTP id C8C73794D  
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)  
X-Flags: 0000  
Delivered-To: GMX delivery to ps.m@gmx.net  
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000  
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]  
by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100  
Received: from raptor.research.att.com (raptor.research.att.com [135.207.23.32])  
by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB  
for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
Received: (from gsf@localhost)  
by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112  
for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
From: Glenn Fowler <gsf@research.att.com>  
Message-Id: <200603011923.OAA86112@raptor.research.att.com>  
Organization: AT&T Research  
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>  
To: mps@bridge.intra  
Subject: Re: testregex licensing question  
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)  
X-GMX-Antispam: 0 (Mail was not recognized as spam)  
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca  
X-Virus-Scanned: by amavisd-new at localhost  
Status: RO  
X-Status:  
X-Keywords:  
X-UID: 44736

you may include it directly  
retain the testregex.c header comment  
it uses a very free license to maximize distribution  
you can copy that .c comment to any test data files you use  
using # comment style to be complete

let me know how it works with your libc  
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

> Hello Glenn!

> I would want to add testregex.c and the related \*.dat files to the uClibc  
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any  
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite  
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2  
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2  
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Version 2.1, February 1999

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

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## 1.46 bzip2 1.0.5 :7.e16\_0

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
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</body>

</html>

/\*

\* \$Header: /home/cvs/jakarta-cactus/LICENSE.httpclient,v 1.1 2002/03/10 14:32:48 vmassol Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2002/03/10 14:32:48 \$

\*

\* =====

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\*

\*/

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=UTF-8">
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<link type="text/css" rel="stylesheet" href=" ../css/apache.css">
<title>Contributors</title>
</head>
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<td width="50%">
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<a href="http://jakarta.apache.org/"></a>
</div>
</td><td width="50%">
<div id="subprojectLogo">
<a href="http://jakarta.apache.org/cactus/"></a>
</div>
</td>
</tr>
</table>
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<td width="50%" id="breadCrumbs"><a href="http://www.apache.org/">Apache</a> > <a
href="http://jakarta.apache.org/">Jakarta</a> > <a href=" ../index.html">Cactus</a> > <a
href=" ../participating/index.html">Participating</a></td><td width="50%" id="status">
```

Docs for:





```
<li class="menuItem">
<a href=" ../participating/build_result.html" title="Aggregated links to the results of the nightly builds.">Nightly
Build Results</a>
</li>
```

```
<li class="menuItem">
<a href=" ../participating/coding_conventions.html" title="The coding conventions used for the development of
Cactus itself.">Coding Conventions</a>
</li>
```

```
<li class="menuItem">
<a target="cvs" href="http://jakarta.apache.org/site/cvsindex.html">CVS</a>
</li>
```

```
<li class="menuItem">
<a href=" ../participating/howto_build.html" title="How to build Cactus from source.">Building From Source</a>
</li>
```

```
<li class="menuItem">
<a href=" ../participating/coverage.html" title="Cactus code coverage reports (generated by Clover)">Code
Coverage Reports</a>
</li>
```

```
<li class="menuItem">
<a href=" ../participating/release_checklist.html" title="Things that are important to check when preparing a release
of Cactus.">Release Checklist</a>
</li>
```

```
</ul>
</li>
```

```
<li class="menu">Miscellaneous<ul>
```

```
<li class="menuItem">
<a href=" ../participating/logos.html" title="Logos for Cactus proposed by various people.">Logo Challenge</a>
</li>
```

```
</ul>
</li>
```

```
</ul>
</div>
</div>
</td><td valign="top">
<div id="content">
```

```
<div class="section">
<h1>Meritocracy</h1>
<blockquote>
```

```
<p>
  All work on Cactus is contributed by volunteers whose only motivation
  is to help make Cactus work even better, both for themselves and for
  rest of the community.
</p>
```

```
<p>
  All contributions are welcome (see the
  <a href=" ../participating/index.html" title="Information on participating in the development of
  Cactus.">Participating</a> page).
  The final decision of what becomes part of the official distribution
  is made by a group of <a href="#committers">Committers</a>.
  For more about Meritocracy, see the
  <a href="http://jakarta.apache.org/site/roles.html" title="">Management page</a> on the Apache
  Jakarta Website.
</p>
```

```
</blockquote>
</div>
```

```
<div class="section">
<h1>Source code contributors</h1>
<blockquote>
```

```
<ul>
<li>
  <a href="mailto:vmassol@apache.org" title="">Vincent
  Massol</a>
</li>
<li>
```

<a href="mailto:paston@bea.com" title="">Philip Aston</a>

</li>

<li>

<a href="mailto:Bob.Davison@reuters.com" title="">Bob Davison</a>

</li>

<li>

<a href="mailto:digital@ix.net.au" title="">Robert Leftwich</a>

</li>

<li>

<a href="mailto:jariw@hyperlink-interactive.co.uk" title="">Jari  
Worsley</a>

</li>

<li>

<a href="mailto:ndlesiecki@apache.org" title="">Nicholas Lesiecki</a>

</li>

<li>

<a href="mailto:HUDSONCWONG@YAHOO.COM" title="">Hudson Wong</a>

</li>

<li>

<a href="mailto:Jason.Robertson@acs-inc.com" title="">Jason Robertson</a>

</li>

<li>

<a href="mailto:pwong@sct.com" title="">Peter Wong</a>

</li>

<li>

<a href="mailto:cmlenz@gmx.de" title="">Christopher Lenz</a>

</li>

<li>

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</li>

<li>

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</li>

<li>

<a href="mailto:jgrelier@octo.com" title="">Jerome Grelier</a>

</li>

</ul>

</blockquote>

</div>

<div class="section">

<h1>Documentation contributors</h1>

<blockquote>

<ul>

<li>

<a href="mailto:vmassol@apache.org" title="">Vincent  
Massol</a>

</li>

<li>

<a href="mailto:cchabanois@ifrance.com" title="">Cedric Chabanois</a>

</li>

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</li>

<li>

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</li>

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<a href="mailto:Kunal\_Vaishnav@jdedwards.com" title="">Kunal  
Vaishnav</a>

</li>

<li>

<a href="mailto:ndlesiecki@yahoo.com" title="">Nicholas Lesiecki</a>

</li>

<li>

<a href="mailto:HUDSONCWONG@yahoo.com" title="">Hudson Wong</a>

</li>

<li>

<a href="mailto:kaarle.kaila@iki.fi" title="">Kaarle Kaila</a>

</li>

<li>

<a href="mailto:sean.zhang@verizon.com" title="">Sean Zhang</a>

</li>

<li>

Matt Sullivan

</li>

<li>

<a href="mailto:alan@digitalmonkey.co.uk" title="">Alan Perfect</a>

</li>

<li>

<a href="mailto:jruaux@octo.com" title="">Julien Ruaux</a>

</li>

<li>

<a href="mailto:cmlenz@gmx.de" title="">Christopher Lenz</a>

</li>

</ul>

</blockquote>

</div>

<a name="committers">

<!--anchor--></a>

<div class="section">

<h1>Committers</h1>

<blockquote>

<ul>

<li>

<a href="mailto:vmassol@octo.com" title="">Vincent  
Massol</a>

</li>

<li>

<a href="mailto:jariw@hyperlink-interactive.co.uk" title="">Jari  
Worsley</a>

</li>

<li>

<a href="mailto:ndlesiecki@yahoo.com" title="">Nicholas Lesiecki</a>

</li>

<li>

<a href="mailto:jruaux@octo.com" title="">Julien Ruaux</a>

</li>

<li>

<a href="mailto:cmlenz@gmx.de" title="">Christopher Lenz</a>

</li>

</ul>

</blockquote>

</div>

<div class="section">

<h1>Special thanks</h1>

<blockquote>

<p>

Thanks to all that have reported bugs or suggested ideas for Cactus.

</p>

<p>

Thanks to all that are participating to the

<a href="..../participating/logos.html" title="Logos for Cactus proposed by various people.">Cactus Logo competition</a>.

</p>

<p>

And, of course ...

</p>

<p>



Thanks to the [Apache Jakarta](http://jakarta.apache.org/) project for accepting the donation of J2EEUnit (renamed Cactus), thus giving it a home and more importantly a family.

</blockquote>  
</div>

<div class="section">  
<h1>More about us</h1>  
<blockquote>

<p>

<b><a href="mailto:vmassol@apache.org" title="">Vincent Massol</a>  
-- Committer</b>

</p>

<p>

I started designing internet applications in 1998, when I joined [OCTO Technology](http://www.octo.com), an Information System Architecture Consulting company, providing expert IT Solutions and Application Architects in the field of new technologies (Application Servers, EAI, Internet Relationship Management). Very soon, when working on customer projects, I introduced the concept of unit testing (using JUnit) as a good way of writing reliable code. Although it worked very well for unit testing "standard" java classes, it was much more difficult for classes that used container objects. Thus, I began developing a small generic framework to help unit test servlets. I improved the framework as I moved on, from customer to customer.

</p>

<p>

Until it was time to open source it ! There were several drivers for that decision. As I spread the word about this framework within Octo, several octomen (and octowoman !) began using it and making modifications, and we ended up with several versions of it, making it difficult to synchronize them (although it was good for the evolutionary and darwinian side of it : ). Another good reason was that I wanted to have feedback from the open source community and wanted to get help

to improve it. Also, it was good to be able to provide to our customers a framework that would continue to evolve and be maintained even after we left the project. The last reason, maybe the strongest, is that I have always been fond of the open source concept and as Octo is providing consulting services, it did not clash with our business model !

</p>

<p>

Thus, I moved the project to SourceForge and called it J2EEUnit. It did well and more and more persons were downloading, participating and using it.

</p>

<p>

Now, most Applications Servers, EAI solutions or IRM ones are providing an infrastructure on which to build applications. But once you've bought the server, you're far from being finished ... There is the business logic code to write but there is also a lot of "glue" to implement. These are technical frameworks like a Controller of the MVC model, a logging framework, an XML-Java mapping one, application configuration, localization, templating, ... And usually these frameworks are not provided in the software package you buy. And even if they are (logging for example), they are not best of breed ones. For these frameworks, I have always been using open source solutions so far (Struts, Log4j, Ant, ...). Thus, I was lurking on Jakarta mailing-lists when I heard about a new project starting, called "Commons" which was to be a place where common components useful for several Jakarta projects would be found. I thought the idea of having a server-side java unit testing framework for Jakarta project (which are server side projects) was a good idea. I proposed to donate J2EEUnit to the Apache Software Foundation ... and I was lucky enough it was accepted ! :-)

</p>

<p>

However, the J2EEUnit name was infringing on the Sun trademark on J2EE so we had to change the name. It was changed to Cactus (see the [cactusname.html](http://cactusname.html) page for why this name?). I found that in the move from SourceForge to Jakarta, I had found a new home for Cactus but, more importantly, I had found a family ! The sense of Community is very strong on Jakarta. You can feel right away the atmosphere and see it is different from other places.

</p>

<p>

Then, thanks to Cactus growing community, our efforts were rewarded and Cactus was accepted as a Jakarta top level project, alongside the renowned Tomcat, Ant, Struts, ... waowww !

</p>

<p>

We are now busy improving Cactus and looking for help. The first step was to get Cactus up and running and demonstrate it worked and is useful. This step has been achieved (I hope :) ). The second step is now to

build a community around Cactus and find persons who are willing to actively participate in the future of it. Unit testing has still not reached the mainstream of development practices but is in the process of doing so with increasing interest in lightweight (also called "Agile") methodologies like Extreme Programming (XP). On the other hand, java server side programming is becoming stronger every day. This is to say that there is a bright future ahead for Cactus and there is still everything to invent.

</p>

<p>

Although the project started as a one-man project, my goal has always been to relinquish as much as possible my hold on Cactus and make it a community-wide project. This is a work in progress and I am proud to say that I am no longer the only committer on the project and several persons have jumped aboard and are already helping shape Cactus future. Come and help us ! :)

</p>

<p>

More info on my current open source involvements can be found  
<a href="http://c2.com/cgi/wiki?VincentMassol" title="">here</a>.

</p>

<a name="nick\_bio">

<!--anchor--></a>

<p>

<b>

<a href="mailto:ndlesiecki@apache.org" title="">Nicholas Lesiecki</a>  
-- Committer</b>

</p>

<p>

I became involved in Cactus while co-authoring

[<a href="http://www.amazon.com/exec/obidos/ASIN/047120708X/" title="">Java Tools for Extreme Programming</a>. \(See our](http://www.amazon.com/exec/obidos/ASIN/047120708X/)

I currently work as a Technical Team Lead at [<a href="http://www.eblox.com" title="">eBlox, Inc</a>, a consulting and ecommerce application development shop. Right now I lead development of the company's flagship online catalog system, \[<a href="http://eblox.com/storeblox.php" title="">storeBlox</a>. As such, I'm always working on new ways to test J2EE components, and so my involvement with Cactus is natural.\]\(http://eblox.com/storeblox.php\)](http://www.eblox.com)

I'm excited about Cactus 2.0, which we hope will usher in the next phase in in-container testing by providing a more abstract framework for interacting with a wider variety of containers (EJB, JMS, etc. ).

</blockquote>  
</div>

</div>  
</td>  
</tr>  
</table>  
</div>  
<div id="footer">  
<p>

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</p>  
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<meta name="author" content="Vincent Massol">



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<li class="menuItem">
<a href="/goals.html" title="Short and long term goals for Cactus.">Goals</a>
</li>
```

```
<li class="menuItem">
<a href="/features.html" title="Cactus feature list.">Features</a>
</li>
```

```
<li class="menuItem">
<a href="/news.html" title="Latest news and events about Cactus.">News</a>
</li>
```

```
<li class="menuItem">
<a href="/changes.html" title="Cactus release changelogs and list of all the web site pages that have been recently
changed.">Changes</a>
</li>
```

```
<li class="menuItem">
<a href="/downloads.html" title="Downloads of Cactus releases and nightly builds.">Downloads</a>
</li>
```

```
<li class="menuItem">
<a target="bug_database" href="http://jakarta.apache.org/site/bugs.html">Bug Database</a>
</li>
```

```
<li class="menuItem">
<a href="/mailinglist.html" title="Information about the Cactus mailing lists.">Mailing Lists</a>
</li>
```

```
<li class="menuItem">
<a href="/faq.html" title="Questions frequently asked (and sometimes answered)">FAQ</a>
</li>
```

```
<li class="menuItem">
<a href="/license.html" title="The Cactus License." class="currentPage">License</a>
</li>
```

```
</ul>
</li>
```

```
<li class="menu">Documentation<ul>
```

```
<li class="menuItem">
<a href="/getting_started.html" title="Gentle introduction to get you up to speed with Cactus.">Getting Started</a>
</li>
```

```
<li class="menuItem">
<a href="/how_it_works.html" title="High level view of the inner workings of Cactus.">How It Works</a>
</li>

<li class="menuItem">
<a href="/writing/howto_testcase.html" title="Introduction to writing Cactus-based unit tests.">Writing Tests</a>
</li>

<li class="menuItem">
<a href="/integration/index.html" title="Information on the various methods of running tests with
Cactus.">Running Tests</a>
</li>

<li class="menuItem">
<a href="/participating/index.html" title="Information on participating in the development of
Cactus.">Participating</a>
</li>

</ul>
</li>

<li class="menu">Miscellaneous<ul>

<li class="menuItem">
<a href="/cactusname.html" title="Some background information about how Cactus got its name.">Why the
Name?</a>
</li>

<li class="menuItem">
<a href="/mock_vs_cactus.html" title="Discussion of in-container testing as compared to using a mock objects
approach.">Mock vs Container</a>
</li>

<li class="menuItem">
<a href="/testedon.html" title="A list of containers that Cactus was tested on for each release.">Tested On...</a>
</li>

<li class="menuItem">
<a href="/resources/index.html" title="Links to Cactus related resources.">Resources</a>
</li>

<li class="menuItem">
<a target="stats" href="http://jakarta.apache.org/cactus/stats/index.html">Statistics</a>
</li>

<li class="menuItem">
<a href="/sitemap.html" title="List of all site resources.">Sitemap</a>
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</li>

</ul>

</li>

<li class="menu">Translations<ul>

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<a target="korean" href="http://jakarta.apache-korea.org/cactus/index.html">Korean</a>

</li>

<li class="menuItem">

<a target="japanese" href="http://www.ingrid.org/jakarta/cactus/">Japanese</a>

</li>

</ul>

</li>

</ul>

</div>

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</td><td valign="top">

<div id="content">

<div class="section">

<h1>Cactus Public License</h1>

<blockquote>

<div class="source">

<pre>

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\* <http://www.apache.org/>.  
\*/  
</pre>  
</div>

</blockquote>

</div>

</div>

</td>

</tr>

</table>

</div>

<div id="footer">

<p>

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</p>

</div>

</body>

</html>

/\*

\* \$Header: /home/cvspublic/jakarta-commons/logging/LICENSE.txt,v 1.2 2003/04/06 20:37:31 rdonkin Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2003/04/06 20:37:31 \$

\*

\* =====

\*

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```
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```

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```

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22:59:43 jkeyes Exp $
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and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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NO WARRANTY



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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.
```

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

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software
```

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

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

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

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

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

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

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

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

GNU LIBRARY GENERAL PUBLIC LICENSE  
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.]

Preamble

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.

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

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

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

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

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

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

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

Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

whether or not they are linked directly with the Library itself.

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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



the executable.

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

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

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

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

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

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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>
```

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

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

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

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

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

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

That's all there is to it!

```
# Exactly the same as t-mips, except we must define SYSTEM_HEADER_DIR  
# to point to the bsd43 include files.  
SYSTEM_HEADER_DIR = /bsd43/usr/include
```

```
# Suppress building libgcc1.a, since the MIPS compiler port is complete  
# and does not need anything from libgcc1.a.
```

```
LIBGCC1 =
```

```
CROSS_LIBGCC1 =
```

```
# Exactly the same as t-mips-gas, except we must define SYSTEM_HEADER_DIR  
# to point to the bsd43 include files.  
SYSTEM_HEADER_DIR = /bsd43/usr/include
```

```
# Suppress building libgcc1.a, since the MIPS compiler port is complete
```

```
# and does not need anything from libgcc1.a.
LIBGCC1 =
CROSS_LIBGCC1 =
/*****
Copyright 1990 - 1997 by AT&T, Lucent Technologies and Bellcore.
```

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```
*****/
```

f2c is a Fortran to C converter under development since 1990 by David M. Gay (then AT&T Bell Labs, now Bell Labs, Lucent Technologies) Stu Feldman (then at Bellcore, now at IBM) Mark Maimone (Carnegie-Mellon University) Norm Schryer (then AT&T Bell Labs, now AT&T Labs) Please send bug reports to [dmg@research.bell-labs.com](mailto:dmg@research.bell-labs.com) .

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@center Version 2, June 1991

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@end enumerate

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

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@center END OF TERMS AND CONDITIONS

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@page

@unnumberedsec How to Apply These Terms to Your New Programs

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

@smallexample

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

Copyright (C) 19@var{yy} @var{name of author}

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

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

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

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

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

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

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

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

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@c To format a standalone LGPL, use liblic.texi.

@ifset lgpl-appendix

@appendix GNU LIBRARY GENERAL PUBLIC LICENSE

@end ifset

@ifclear lgpl-appendix

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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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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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If a facility in the modified Library refers to a function or a

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

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

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If 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 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.

@item

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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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.

@item

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the 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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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@setfilename license.info

@ifinfo

@format

START-INFO-DIR-ENTRY

\* COPYING: (license). The GNU General Public License

END-INFO-DIR-ENTRY

@end format

@end ifinfo

@settitle GPL

@iftex

@headings doubleafter

@setchapternewpage off

@end iftex

@finalout

@node Top, , (dir), (dir)

@unnumbered GNU GENERAL PUBLIC LICENSE

@include gpl.texinfo

@bye

# 1.72 compat-gcc-32 3.2.3 :69.el6

## 1.72.1 Available under license :

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Q: How is that different from the GNU {Lesser,Library} GPL?

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Stu Feldman (then at Bellcore, now at IBM)

Mark Maimone (Carnegie-Mellon University)

Norm Schryer (then AT&T Bell Labs, now AT&T Labs)

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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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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.

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

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.

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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Ty Coon, President of Vice

That's all there is to it!

## 1.74 compat-glibc 2.5 :46.2

### 1.74.1 Available under license :

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

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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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```
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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.

^L

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- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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#### END OF TERMS AND CONDITIONS

^L

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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>

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

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

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

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

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

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,  
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,  
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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

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

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Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-----

-----

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

-----

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

[Cracklib-devel] cracklib license

From: Mike Frysinger <[vapier@ge...](mailto: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  
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-- 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  
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> 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  
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thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel] cracklib license

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

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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.

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=20

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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 Fry singer  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license

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> -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  
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>> 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  
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> 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 191Gxtp020623  
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

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

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

[Cracklib-devel] cracklib license

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

Attachments: Message as HTML

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

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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

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Attachments: Message as HTML

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

> Mike Frysinger

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

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

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

> directly

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

> point,

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

> it was

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

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

>=20

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

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the  
> license  
> change until it was mentioned in the latest notes.  
>=20  
> unlike the old license, GPL-2 prevents people from using cracklib  
> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

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

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

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

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

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

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

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.  
>>  
>> I am sympathetic. Guys, what do you reckon?  
>>

>> 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

## 1.81 cronie 1.4.4 :15.el6\_7.1

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

## 1.82 crontabs 1.10 :33.el6

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```
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```

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

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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!

## 1.86 curl 7.28.0

### 1.86.1 Available under license :

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c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

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# 1.87 curl 7.47.0

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## 1.88 curl 7.19.7 :52.e16

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

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.TH sasl\_getsimple\_t "10 July 2001" SASL "SASL man pages"

.SH NAME

sasl\_getsimple\_t \- The SASL callback for username/authname/realm

/\* sample-server.c -- sample SASL server

\* Rob Earhart

\* \$Id: sample-server.c,v 1.31 2004/10/26 11:14:34 mel Exp \$

\*/

/\*

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* Rob Earhart
* $Id: sample-client.c,v 1.31 2004/10/26 11:14:33 mel Exp $
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\* Termios command line History and Editing for NetBSD sh (ash)

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\* Etc: Dave Cinege <dcinege@psychosis.com>

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\* v 0.5 19990328 Initial release

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\* Future plans: Simple file and path name completion. (like BASH)

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

To protect your rights, we need to 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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contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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



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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,

instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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#### END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

# 1.100 device-mapper-persistent-data 0.6.2 :0.1.rc7.el6

## 1.100.1 Available under license :

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Version 3, 29 June 2007

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For example, if you distribute copies of such a program, whether  
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Developers that use the GNU GPL protect your rights with two steps:  
(1) assert copyright on the software, and (2) offer you this License  
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For the developers' and authors' protection, the GPL clearly explains  
that there is no warranty for this free software. For both users' and  
authors' sake, the GPL requires that modified versions be marked as



changed, so that their problems will not be attributed erroneously to authors of previous versions.

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

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

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

## TERMS AND CONDITIONS

### 0. Definitions.

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

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

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

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

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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.

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

linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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#### 5. Conveying Modified Source Versions.

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

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an

"aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

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

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
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```
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Theodore Ts'o  
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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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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```
#!/bin/sh
```

```
find . -type f ! -name \*~ ! -exec grep -q Begin-Header \{\} \; -print \
| grep -v ^./build
```

This 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:  
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library 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/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o  
23-June-2007

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That's all there is to it!

#

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

#

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

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

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

#

all:: image

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
Index: tdbsa/tdb.c
```

```
=====
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell          2005
```

- + Copyright (C) Andrew Tridgell 1999-2005
- + Copyright (C) Jeremy Allison 2000-2006
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## 1.113 e2fsprogs-lib 1.41.9

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```
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#  
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#  
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# `make' implicit rules from creating a file called install from it
```

# 1.117 elfutils 0.164 :2.el6

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# 1.125 findutils 4.4.2 :9.e16

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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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Version 2, June 1991

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## 1.132 fuse 2.8.3 :5.el6

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```

```
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## 1.133 gamin 0.1.10 :9.el6

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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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```
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```

```
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
```

```
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit build system type.
```

```
/*
```

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\*/

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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

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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.

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## 1.135 gcc 4.4.7 :17.el6

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

## HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.



Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of

free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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

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

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

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

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

writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a



work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that

uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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

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

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## END OF TERMS AND CONDITIONS

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

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

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

That's all there is to it!

```
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 2007 Free Software Foundation, Inc.
```

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

```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
```

```
@c This file is intended to be included in another file.
```

```
@display
Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
```

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

```
@end display
```

@heading Preamble

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

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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.

@heading TERMS AND CONDITIONS

@enumerate 0

@item Definitions.

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

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

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

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

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

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

To ``convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user



through a computer network, with no transfer of a copy, is not conveying.

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

@item 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.

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

The Corresponding Source need not include anything that users can

regenerate automatically from other parts of the Corresponding Source.

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

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

@item Conveying Modified Source Versions.

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

@enumerate a

@item

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

@item

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

@item

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

@item

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

@end enumerate

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program,

in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

@item Conveying Non-Source Forms.

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

@enumerate a

@item

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

@item

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

@item

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

@item

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports

equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item

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

@end enumerate

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

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```
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```

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```
@c man end
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details

type `show w'.

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

@end smallexample

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

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

@example

Yoyodyne, Inc., hereby disclaims all copyright interest in the program

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

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

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.

@c man end

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

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

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

#### 1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

#### 2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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

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

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

@end display

@appendixsubsec Preamble

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---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.

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

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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.

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

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original



author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

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

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

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

@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

@enumerate 0

@item

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item

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

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

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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:

@enumerate a

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The modified work must itself be a software library.

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

@item

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

@item

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.)  
@end enumerate

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.

@item

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.

@item

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.

@item

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.

@item

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:

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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.)

@item

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.

@item

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.

@item

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.

@item

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

@end enumerate

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.

@item

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

@item

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

@end enumerate

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@heading NO WARRANTY

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@center NO WARRANTY

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@end enumerate

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@heading END OF TERMS AND CONDITIONS

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@center END OF TERMS AND CONDITIONS

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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

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

@smallexample

@var{one line to give the library's name and an idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of

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

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

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

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

@var{signature of Ty Coon}, 1 April 1990  
Ty Coon, President of Vice  
@end smallexample

That's all there is to it!

## 1.136 GConf2 2.28.0 :6.e16

### 1.136.1 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.]

#### Preamble

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 Library General Public License, applies to some

specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

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

The "Library", below, refers to any such software library or work

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

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

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

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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

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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



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```
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```
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```

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```
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```

```
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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.

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

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you. You must make sure that they, too, receive or can get the source

code. If you link other code 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.

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

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

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

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

```
@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo
```

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

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

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

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

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

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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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@item

The modified work must itself be a software library.

@item

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

@item

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

@item

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.)

@end enumerate

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.

@item

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.

@item

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.

@item

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.

@item

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:

@enumerate a

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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.)

@item

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.

@item

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.

@item

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.

@item

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

@end enumerate

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.

@item

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

@item

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

@end enumerate

@item

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@end ifinfo

@item  
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@end enumerate

@iftex  
@heading END OF TERMS AND CONDITIONS  
@end iftex  
@ifinfo  
@center END OF TERMS AND CONDITIONS  
@end ifinfo

@page  
@appendixsubsec How to Apply These Terms to Your New Libraries

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

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the

``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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

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@end smallexample

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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:

@smallexample

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

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

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Version 2.1, February 1999

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

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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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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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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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.

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

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

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

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

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

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

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collective works based on the Library.

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

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This option is useful when you wish to copy part of the code of 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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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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# 1.139 gdbm 1.8.0 :39.el6

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## 1.140 gdk-pixbuf2 2.24.1 :6.el6\_7

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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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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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## 1.141 giflib 4.1.6 :3.1.e16

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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.

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.

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

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# 1.146 gnupg2 2.0.14 :8.e16

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of

free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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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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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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\* snprintf.c - a portable implementation of snprintf

\*

\* AUTHOR

\* Mark Martinec <mark.martinec@ijs.si>, April 1999.

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\*

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## 1.154 gtk2 2.24.23 :8.e16

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## 1.158 HAProxy 1.5.11 :2014/02/03

### 1.158.1 Available under license :

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Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

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## 1.160 hicolor-icon-theme 0.11 :1.1.el6

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## 1.166 httpcore 4.4.5

### 1.166.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
```

```
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">
```

```
<title>Apache License, Version 2.0</title>
```

```
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
```

```
<link href="/css/min.bootstrap.css" rel="stylesheet">
```

```
<link href="/css/styles.css" rel="stylesheet">
```

```
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permissions and limitations under the License. -->
```

```
</head>
```

```
<body>
```

```
<!-- Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```

    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
  </button>
  <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
    <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="http://people.apache.org/">Overview</a></li>
        <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
        <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
        <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
        <li><a href="http://planet.apache.org/">Planet Apache</a></li>
      </ul>
    </li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
        <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
      </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

```

```

        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
    <div class="col-md-6 col-sm-5 col-xs-12">
        
    </div>
    <div class="col-md-3 col-sm-3 col-xs-6">
        <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
            
        </a>
    </div>
    <div class="col-md-3 col-sm-4 col-xs-6">
        <div class="input-group" style="margin-bottom: 5px;">
            <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
        </div>
        <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
        <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
        <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
    </div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
    It was originally lifted from http://subversion.apache.org/style/site.css */

```

```

/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```



```
<br />
<div class="col-sm-1">

</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
    <li><a href="/memorials/">Memorials</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
  </ul>
</div>
```

```
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
<p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
</div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

# 1.167 hwdatas 0.233 :16.1.e16

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```
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```

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## 1.168 icedtea-web 1.2.3 :4.el6\_4

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## 1.169 icu4c 49.1.2

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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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```
*/
```

```
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```

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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.

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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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# 1.188 java\_cup 0.10k :5.e16

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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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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

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

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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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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.

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```

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# 1.190 JavaBeans Activation Framework (JAF)

## 1.1

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## 1.191 javacsv 2.0

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# Infrastructure

# JCP

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# Introduction

# Meritocracy

# Structure

# Roles

# Collaboration

# Infrastructure

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 * @(#)UnixCrypt.java 0.9 96/11/25
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## 1.217 Junit 4.8.2

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

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

That's all there is to it!

```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
```



```

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
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* along with this program; if not, write to the Free Software
* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/

```

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```
#ifndef __LICENSE_H
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}
```

```
#endif
```

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QLogic Linux qlge NIC Driver

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single nxt200x frontend driver.

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ConferenceTV card

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## 1.222 krb5 1.6.3

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

•

`lib/gssapi/generic/gssapi_err_generic.et`

lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c  
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cmd/krb5/kproplog/kproplog.c  
cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c

lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
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lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
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lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c

lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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```

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```

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

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```
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`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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'src/lib/gssapi', including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including

the following new or changed files:

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

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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 other code 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.

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

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

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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".)

"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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- 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,



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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.

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

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

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

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#### Preamble

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

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

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

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

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

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



the same as in the ordinary license.

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

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

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

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

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

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

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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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(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.

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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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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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## 1.233 libcap-ng 0.6.4 :3.el6\_0.1

### 1.233.1 Available under license :

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```
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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
```

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Version 2.1, February 1999

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## 1.235 libdrm 2.4.65 :2.el6

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```

```

# diff and a properly formatted ChangeLog entry.
#
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# Supply the specified configuration type as an argument.
# If it is invalid, we print an error message on stderr and exit with code 1.
# Otherwise, we print the canonical config type on stdout and succeed.

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# and recognize all the CPU types, system types and aliases
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# Each package is responsible for reporting which valid configurations
# it does not support. The user should be able to distinguish
# a failure to support a valid configuration from a meaningless
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* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
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* POSSIBILITY OF SUCH DAMAGE.
*/

```

## 1.237 libevent 1.4.13 :4.e16

## 1.237.1 Available under license :

```
# generated automatically by aclocal 1.10.1 -*- Autoconf -*-

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# 2005, 2006, 2007, 2008 Free Software Foundation, Inc.
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# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY, to the extent permitted by law; without
# even the implied warranty of MERCHANTABILITY or FITNESS FOR A
# PARTICULAR PURPOSE.

m4_ifndef([AC_AUTOCONF_VERSION],
[m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION])]dnl
m4_if(AC_AUTOCONF_VERSION, [2.63],,
[m4_warning([this file was generated for autoconf 2.63.
You have another version of autoconf. It may work, but is not guaranteed to.
If you have problems, you may need to regenerate the build system entirely.
To do so, use the procedure documented by the package, typically 'autoreconf'.]))

# libtool.m4 - Configure libtool for the host system. -*-Autoconf-*-

# serial 52 AC_PROG_LIBTOOL

# AC_PROVIDE_IFELSE(MACRO-NAME, IF-PROVIDED, IF-NOT-PROVIDED)
# -----
# If this macro is not defined by Autoconf, define it here.
m4_ifdef([AC_PROVIDE_IFELSE],
  [],
  [m4_define([AC_PROVIDE_IFELSE],
    [m4_ifdef([AC_PROVIDE_$1],
      [$2], [$3])])])

# AC_PROG_LIBTOOL
# -----
AC_DEFUN([AC_PROG_LIBTOOL],
[AC_REQUIRE([_AC_PROG_LIBTOOL])dnl
dnl If AC_PROG_CXX has already been expanded, run AC_LIBTOOL_CXX
dnl immediately, otherwise, hook it in at the end of AC_PROG_CXX.
AC_PROVIDE_IFELSE([AC_PROG_CXX],
  [AC_LIBTOOL_CXX],
  [define([AC_PROG_CXX], defn([AC_PROG_CXX])[AC_LIBTOOL_CXX
])])])
```

```

dnl And a similar setup for Fortran 77 support
AC_PROVIDE_IFELSE([AC_PROG_F77],
  [AC_LIBTOOL_F77],
  [define([AC_PROG_F77], defn([AC_PROG_F77])[AC_LIBTOOL_F77
]))

dnl Quote A][M_PROG_GCJ so that aclocal doesn't bring it in needlessly.
dnl If either AC_PROG_GCJ or A][M_PROG_GCJ have already been expanded, run
dnl AC_LIBTOOL_GCJ immediately, otherwise, hook it in at the end of both.
AC_PROVIDE_IFELSE([AC_PROG_GCJ],
  [AC_LIBTOOL_GCJ],
  [AC_PROVIDE_IFELSE([A][M_PROG_GCJ],
    [AC_LIBTOOL_GCJ],
    [AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],
      [AC_LIBTOOL_GCJ],
      [ifdef([AC_PROG_GCJ],
        [define([AC_PROG_GCJ], defn([AC_PROG_GCJ])[AC_LIBTOOL_GCJ]])]
        ifdef([A][M_PROG_GCJ],
          [define([A][M_PROG_GCJ], defn([A][M_PROG_GCJ])[AC_LIBTOOL_GCJ]])]
          ifdef([LT_AC_PROG_GCJ],
            [define([LT_AC_PROG_GCJ],
              defn([LT_AC_PROG_GCJ])[AC_LIBTOOL_GCJ])])])])])])
)])# AC_PROG_LIBTOOL

# _AC_PROG_LIBTOOL
# -----
AC_DEFUN([_AC_PROG_LIBTOOL],
[AC_REQUIRE([AC_LIBTOOL_SETUP])dnl
AC_BEFORE([$0],[AC_LIBTOOL_CXX])dnl
AC_BEFORE([$0],[AC_LIBTOOL_F77])dnl
AC_BEFORE([$0],[AC_LIBTOOL_GCJ])dnl

# This can be used to rebuild libtool when needed
LIBTOOL_DEPS="$ac_aux_dir/ltmain.sh"

# Always use our own libtool.
LIBTOOL='$(SHELL) $(top_builddir)/libtool'
AC_SUBST(LIBTOOL)dnl

# Prevent multiple expansion
define([AC_PROG_LIBTOOL], [])
])# _AC_PROG_LIBTOOL

# AC_LIBTOOL_SETUP
# -----
AC_DEFUN([AC_LIBTOOL_SETUP],

```



```

# Sed substitution to avoid accidental globbing in evaled expressions
no_glob_subst='s/\*\//\*/g'

# Constants:
rm="rm -f"

# Global variables:
default_ofile=libtool
can_build_shared=yes

# All known linkers require a '.a' archive for static linking (except MSVC,
# which needs '.lib').
libext=a
ltmain="$ac_aux_dir/ltmain.sh"
ofile="$default_ofile"
with_gnu_ld="$lt_cv_prog_gnu_ld"

AC_CHECK_TOOL(AR, ar, false)
AC_CHECK_TOOL(RANLIB, ranlib, :)
AC_CHECK_TOOL(STRIP, strip, :)

old_CC="$CC"
old_CFLAGS="$CFLAGS"

# Set sane defaults for various variables
test -z "$AR" && AR=ar
test -z "$AR_FLAGS" && AR_FLAGS=cru
test -z "$AS" && AS=as
test -z "$CC" && CC=cc
test -z "$LTCC" && LTCC=$CC
test -z "$LTCFLAGS" && LTCFLAGS=$CFLAGS
test -z "$DLLTOOL" && DLLTOOL=dlltool
test -z "$LD" && LD=ld
test -z "$LN_S" && LN_S="ln -s"
test -z "$MAGIC_CMD" && MAGIC_CMD=file
test -z "$NM" && NM=nm
test -z "$SED" && SED=sed
test -z "$OBJDUMP" && OBJDUMP=objdump
test -z "$RANLIB" && RANLIB=:
test -z "$STRIP" && STRIP=:
test -z "$ac_objext" && ac_objext=o

# Determine commands to create old-style static archives.
old_archive_cmds='$AR $AR_FLAGS $oldlib$oldobjs'
old_postinstall_cmds='chmod 644 $oldlib'
old_postuninstall_cmds=

if test -n "$RANLIB"; then

```

```

case $host_os in
openbsd*)
  old_postinstall_cmds="$old_postinstall_cmds~\${RANLIB} -t \${oldlib}"
  ;;
*)
  old_postinstall_cmds="$old_postinstall_cmds~\${RANLIB} \${oldlib}"
  ;;
esac
old_archive_cmds="$old_archive_cmds~\${RANLIB} \${oldlib}"
fi

```

```
_LT_CC_BASENAME([${compiler}])
```

```

# Only perform the check for file, if the check method requires it
case $deplibs_check_method in
file_magic*)
  if test "$file_magic_cmd" = '$MAGIC_CMD'; then
    AC_PATH_MAGIC
  fi
  ;;
esac

```

```
_LT_REQUIRED_DARWIN_CHECKS
```

```

AC_PROVIDE_IFELSE([AC_LIBTOOL_DLOPEN], enable_dlopen=yes, enable_dlopen=no)
AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
enable_win32_dll=yes, enable_win32_dll=no)

```

```

AC_ARG_ENABLE([libtool-lock],
  [AC_HELP_STRING([--disable-libtool-lock],
[avoid locking (might break parallel builds)])])
test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

```

```

AC_ARG_WITH([pic],
  [AC_HELP_STRING([--with-pic],
[try to use only PIC/non-PIC objects @<:@default=use both@:>@]),
  [pic_mode="$withval"],
  [pic_mode=default])
test -z "$pic_mode" && pic_mode=default

```

```

# Use C for the default configuration in the libtool script
tagname=
AC_LIBTOOL_LANG_C_CONFIG
_LT_AC_TAGCONFIG
])# AC_LIBTOOL_SETUP

```

```
#_LT_AC_SYS_COMPILER
```



```

# -----
AC_DEFUN([_LT_AC_SYS_COMPILER],
[AC_REQUIRE([AC_PROG_CC])dnl

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC
])# _LT_AC_SYS_COMPILER

# _LT_CC_BASENAME(CC)
# -----
# Calculate cc_basename.  Skip known compiler wrappers and cross-prefix.
AC_DEFUN([_LT_CC_BASENAME],
[for cc_temp in $1""; do
case $cc_temp in
  compile | *[[\V]]compile | ccache | *[[\V]]ccache ) ;;
  distcc | *[[\V]]distcc | purify | *[[\V]]purify ) ;;
  \-*) ;;
  *) break;;
esac
done
cc_basename='${echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^\$host_alias-%%"
}]

# _LT_COMPILER_BOILERPLATE
# -----
# Check for compiler boilerplate output or warnings with
# the simple compiler test code.
AC_DEFUN([_LT_COMPILER_BOILERPLATE],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
ac_outfile=conftest.$ac_objext
echo "$lt_simple_compile_test_code" >conftest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_compiler_boilerplate='cat conftest.err'
$rm conftest*
])# _LT_COMPILER_BOILERPLATE

# _LT_LINKER_BOILERPLATE
# -----
# Check for linker boilerplate output or warnings with

```

```

# the simple link test code.
AC_DEFUN([_LT_LINKER_BOILERPLATE],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
ac_outfile=conftest.$ac_objext
echo "$lt_simple_link_test_code" >conftest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_linker_boilerplate='cat conftest.err'
$rm -r conftest*
])# _LT_LINKER_BOILERPLATE

# _LT_REQUIRED_DARWIN_CHECKS
# -----
# Check for some things on darwin
AC_DEFUN([_LT_REQUIRED_DARWIN_CHECKS],[
case $host_os in
  rhapsody* | darwin*)
    AC_CHECK_TOOL([DSYMUTIL], [dsymutil], [:])
    AC_CHECK_TOOL([NMEDIT], [nmedit], [:])

    AC_CACHE_CHECK([for -single_module linker flag],[lt_cv_apple_cc_single_mod],
      [lt_cv_apple_cc_single_mod=no
      if test -z "${LT_MULTI_MODULE}"; then
        # By default we will add the -single_module flag. You can override
        # by either setting the environment variable LT_MULTI_MODULE
        # non-empty at configure time, or by adding -multi_module to the
        # link flags.
        echo "int foo(void){return 1;}" > conftest.c
        $LTCC $LTCFLAGS $LDFLAGS -o libconftest.dylib \
          -dynamiclib ${wl}-single_module conftest.c
        if test -f libconftest.dylib; then
          lt_cv_apple_cc_single_mod=yes
          rm -rf libconftest.dylib*
        fi
        rm conftest.c
      fi])
    AC_CACHE_CHECK([for -exported_symbols_list linker flag],
      [lt_cv_ld_exported_symbols_list],
      [lt_cv_ld_exported_symbols_list=no
      save_LDFLAGS=$LDFLAGS
      echo "_main" > conftest.sym
      LDFLAGS="$LDFLAGS -Wl,-exported_symbols_list,conftest.sym"
      AC_LINK_IFELSE([AC_LANG_PROGRAM([],[])],
        [lt_cv_ld_exported_symbols_list=yes],
        [lt_cv_ld_exported_symbols_list=no])
      LDFLAGS="$save_LDFLAGS"
    ])
    case $host_os in
      rhapsody* | darwin1.[[0123]])

```

```

    _lt_dar_allow_undefined='${wl}-undefined ${wl}suppress' ;;
darwin1.*)
    _lt_dar_allow_undefined='${wl}-flat_namespace ${wl}-undefined ${wl}suppress' ;;
darwin*)
    # if running on 10.5 or later, the deployment target defaults
    # to the OS version, if on x86, and 10.4, the deployment
    # target defaults to 10.4. Don't you love it?
    case ${MACOSX_DEPLOYMENT_TARGET-10.0},$host in
10.0,*86*-darwin8*|10.0,*-darwin[[91]]*)
    _lt_dar_allow_undefined='${wl}-undefined ${wl}dynamic_lookup' ;;
10.0.*|10.0.*|10.0.*|10.0.*)
    _lt_dar_allow_undefined='${wl}-flat_namespace ${wl}-undefined ${wl}suppress' ;;
10.*)
    _lt_dar_allow_undefined='${wl}-undefined ${wl}dynamic_lookup' ;;
    esac
;;
esac
if test "$lt_cv_apple_cc_single_mod" = "yes"; then
    _lt_dar_single_mod='${single_module}'
fi
if test "$lt_cv_ld_exported_symbols_list" = "yes"; then
    _lt_dar_export_syms=' ${wl}-exported_symbols_list,$output_objdir/${libname}-symbols.expsym'
else
    _lt_dar_export_syms="~$NMEDIT -s $output_objdir/${libname}-symbols.expsym ${lib}"
fi
if test "$DSYMUTIL" != ":"; then
    _lt_dsymutil="~$DSYMUTIL ${lib}|"
else
    _lt_dsymutil=
fi
;;
esac
)

```

```

# _LT_AC_SYS_LIBPATH_AIX
# -----
# Links a minimal program and checks the executable
# for the system default hardcoded library path. In most cases,
# this is /usr/lib/lib, but when the MPI compilers are used
# the location of the communication and MPI libs are included too.
# If we don't find anything, use the default library path according
# to the aix ld manual.
AC_DEFUN([_LT_AC_SYS_LIBPATH_AIX],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_LINK_IFELSE(AC_LANG_PROGRAM,[
lt_aix_libpath_sed='
/Import File Strings/,/^$/ {
/^0/ {

```

```

s/^0 *\(.*\)$\1/
p
}
}'
aix_libpath='dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e "$lt_aix_libpath_sed"
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then
aix_libpath='dump -HX64 conftest$ac_exeext 2>/dev/null | $SED -n -e "$lt_aix_libpath_sed"
fi,[]
if test -z "$aix_libpath"; then aix_libpath="/usr/lib/lib"; fi
])# _LT_AC_SYS_LIBPATH_AIX

```

```

# _LT_AC_SHELL_INIT(ARG)
# -----
AC_DEFUN([_LT_AC_SHELL_INIT],
[ifdef([AC_DIVERSION_NOTICE],
[AC_DIVERT_PUSH(AC_DIVERSION_NOTICE)],
[AC_DIVERT_PUSH(NOTICE)])
$1
AC_DIVERT_POP
])# _LT_AC_SHELL_INIT

```

```

# _LT_AC_PROG_ECHO_BACKSLASH
# -----
# Add some code to the start of the generated configure script which
# will find an echo command which doesn't interpret backslashes.
AC_DEFUN([_LT_AC_PROG_ECHO_BACKSLASH],
[_LT_AC_SHELL_INIT([
# Check that we are running under the correct shell.
SHELL=${CONFIG_SHELL-/bin/sh}

```

```

case X$ECHO in
X*--fallback-echo)
# Remove one level of quotation (which was required for Make).
ECHO='echo "$ECHO" | sed 's,\\\[[]\\[[]0,[]0,'
;;
esac

```

```

echo=${ECHO-echo}
if test "X[$]1" = X--no-reexec; then
# Discard the --no-reexec flag, and continue.
shift
elif test "X[$]1" = X--fallback-echo; then
# Avoid inline document here, it may be left over
:
elif test "X'($echo \t) 2>/dev/null'" = 'X\t' ; then

```

```

# Yippee, $echo works!
:
else
# Restart under the correct shell.
exec $SHELL "$[0]" --no-reexec ${1+"[$]@"}
fi

if test "X[$]1" = X--fallback-echo; then
# used as fallback echo
shift
cat <<EOF
[$]*
EOF
exit 0
fi

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

if test -z "$ECHO"; then
if test "X${echo_test_string+set}" != Xset; then
# find a string as large as possible, as long as the shell can cope with it
for cmd in 'sed 50q "$[0]'" 'sed 20q "$[0]'" 'sed 10q "$[0]'" 'sed 2q "$[0]'" 'echo test'; do
# expected sizes: less than 2Kb, 1Kb, 512 bytes, 16 bytes, ...
if (echo_test_string='eval $cmd') 2>/dev/null &&
echo_test_string='eval $cmd' &&
(test "X$echo_test_string" = "X$echo_test_string") 2>/dev/null
then
break
fi
done
fi

if test "X'($echo `t`) 2>/dev/null'" = 'X`t' &&
echo_testing_string='($echo "$echo_test_string") 2>/dev/null' &&
test "X$echo_testing_string" = "X$echo_test_string"; then
:
else
# The Solaris, AIX, and Digital Unix default echo programs unquote
# backslashes. This makes it impossible to quote backslashes using
# echo "$something" | sed 's/\\/\|/g'
#
# So, first we look for a working echo in the user's PATH.

lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
for dir in $PATH /usr/ucb; do
IFS="$lt_save_ifs"

```

```

if (test -f $dir/echo || test -f $dir/echo$sac_exeext) &&
    test "X'($dir/echo \t) 2>/dev/null" = 'X\t' &&
    echo_testing_string='($dir/echo "$echo_test_string") 2>/dev/null' &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
    echo="$dir/echo"
    break
fi
done
IFS="$lt_save_ifs"

if test "X$echo" = Xecho; then
    # We didn't find a better echo, so look for alternatives.
    if test "X'(print -r \t) 2>/dev/null" = 'X\t' &&
        echo_testing_string='(print -r "$echo_test_string") 2>/dev/null' &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
        # This shell has a builtin print -r that does the trick.
        echo='print -r'
    elif (test -f /bin/ksh || test -f /bin/ksh$sac_exeext) &&
        test "X$CONFIG_SHELL" != X/bin/ksh; then
        # If we have ksh, try running configure again with it.
        ORIGINAL_CONFIG_SHELL=${CONFIG_SHELL-/bin/sh}
        export ORIGINAL_CONFIG_SHELL
        CONFIG_SHELL=/bin/ksh
        export CONFIG_SHELL
        exec $CONFIG_SHELL "$[0]" --no-reexec ${1+"[$]@"}
    else
        # Try using printf.
        echo='printf %s\n'
        if test "X'($echo \t) 2>/dev/null" = 'X\t' &&
            echo_testing_string='($echo "$echo_test_string") 2>/dev/null' &&
            test "X$echo_testing_string" = "X$echo_test_string"; then
            # Cool, printf works
            :
            elif echo_testing_string='($ORIGINAL_CONFIG_SHELL "$[0]" --fallback-echo \t) 2>/dev/null' &&
                test "X$echo_testing_string" = 'X\t' &&
                echo_testing_string='($ORIGINAL_CONFIG_SHELL "$[0]" --fallback-echo "$echo_test_string") 2>/dev/null'
            &&
            test "X$echo_testing_string" = "X$echo_test_string"; then
            CONFIG_SHELL=$ORIGINAL_CONFIG_SHELL
            export CONFIG_SHELL
            SHELL="$CONFIG_SHELL"
            export SHELL
            echo="$CONFIG_SHELL [$]0 --fallback-echo"
            elif echo_testing_string='($CONFIG_SHELL "$[0]" --fallback-echo \t) 2>/dev/null' &&
                test "X$echo_testing_string" = 'X\t' &&
                echo_testing_string='($CONFIG_SHELL "$[0]" --fallback-echo "$echo_test_string") 2>/dev/null' &&
                test "X$echo_testing_string" = "X$echo_test_string"; then
            echo="$CONFIG_SHELL [$]0 --fallback-echo"

```

```

else
# maybe with a smaller string...
prev=:

for cmd in 'echo test' 'sed 2q "[\$]0"' 'sed 10q "[\$]0"' 'sed 20q "[\$]0"' 'sed 50q "[\$]0"'; do
if (test "X$echo_test_string" = "X'eval $cmd") 2>/dev/null
then
break
fi
prev="$cmd"
done

if test "$prev" != 'sed 50q "[\$]0"'; then
echo_test_string='eval $prev'
export echo_test_string
exec ${ORIGINAL_CONFIG_SHELL-${CONFIG_SHELL-/bin/sh}} "[\$]0" "${1+"[$]@"}
else
# Oops. We lost completely, so just stick with echo.
echo=echo
fi
fi
fi
fi
fi

# Copy echo and quote the copy suitably for passing to libtool from
# the Makefile, instead of quoting the original, which is used later.
ECHO=$echo
if test "X$ECHO" = "X$CONFIG_SHELL [$]0 --fallback-echo"; then
ECHO="$CONFIG_SHELL \\\$[$]0 --fallback-echo"
fi

AC_SUBST(ECHO)
)))# _LT_AC_PROG_ECHO_BACKSLASH

# _LT_AC_LOCK
# -----
AC_DEFUN([_LT_AC_LOCK],
[AC_ARG_ENABLE([libtool-lock],
[AC_HELP_STRING([--disable-libtool-lock],
[avoid locking (might break parallel builds)])])
test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

# Some flags need to be propagated to the compiler or linker for good
# libtool support.
case $host in

```

```

ia64-*-hpux*)
# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
  case '/usr/bin/file conftest.$ac_objext' in
    *ELF-32*)
      HPUX_IA64_MODE="32"
      ;;
    *ELF-64*)
      HPUX_IA64_MODE="64"
      ;;
  esac
fi
rm -rf conftest*
;;
*-*-irix6*)
# Find out which ABI we are using.
echo '[#]line __oline__ "configure"' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
  if test "$lt_cv_prog_gnu_ld" = yes; then
    case '/usr/bin/file conftest.$ac_objext' in
      *32-bit*)
        LD="{LD-ld} -melf32bsmip"
        ;;
      *N32*)
        LD="{LD-ld} -melf32bmipn32"
        ;;
      *64-bit*)
        LD="{LD-ld} -melf64bmip"
        ;;
    esac
  else
    case '/usr/bin/file conftest.$ac_objext' in
      *32-bit*)
        LD="{LD-ld} -32"
        ;;
      *N32*)
        LD="{LD-ld} -n32"
        ;;
      *64-bit*)
        LD="{LD-ld} -64"
        ;;
    esac
  fi
fi
rm -rf conftest*
;;

```



```

x86_64-*kfreebsd*-gnu|x86_64-*linux*|ppc*-*linux*|powerpc*-*linux*| \
s390*-*linux*|sparc*-*linux*)
# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
  case '/usr/bin/file conftest.o' in
    *32-bit*)
      case $host in
        x86_64-*kfreebsd*-gnu)
          LD="{LD-ld} -m elf_i386_fbsd"
          ;;
        x86_64-*linux*)
          LD="{LD-ld} -m elf_i386"
          ;;
        ppc64-*linux*|powerpc64-*linux*)
          LD="{LD-ld} -m elf32ppclinux"
          ;;
        s390x-*linux*)
          LD="{LD-ld} -m elf_s390"
          ;;
        sparc64-*linux*)
          LD="{LD-ld} -m elf32_sparc"
          ;;
      esac
    ;;
    *64-bit*)
      case $host in
        x86_64-*kfreebsd*-gnu)
          LD="{LD-ld} -m elf_x86_64_fbsd"
          ;;
        x86_64-*linux*)
          LD="{LD-ld} -m elf_x86_64"
          ;;
        ppc*-*linux*|powerpc*-*linux*)
          LD="{LD-ld} -m elf64ppc"
          ;;
        s390*-*linux*)
          LD="{LD-ld} -m elf64_s390"
          ;;
        sparc*-*linux*)
          LD="{LD-ld} -m elf64_sparc"
          ;;
      esac
    ;;
  esac
fi
rm -rf conftest*
;;

```

```

*-*-sco3.2v5*)
# On SCO OpenServer 5, we need -belf to get full-featured binaries.
SAVE_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS -belf"
AC_CACHE_CHECK([whether the C compiler needs -belf], lt_cv_cc_needs_belf,
  [AC_LANG_PUSH(C)
   AC_TRY_LINK([],[],[lt_cv_cc_needs_belf=yes],[lt_cv_cc_needs_belf=no])
   AC_LANG_POP])
if test x"$lt_cv_cc_needs_belf" != x"yes"; then
  # this is probably gcc 2.8.0, egcs 1.0 or newer; no need for -belf
  CFLAGS="$SAVE_CFLAGS"
fi
;;
sparc*-*-solaris*)
# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
  case '/usr/bin/file conftest.o' in
    *64-bit*)
      case $lt_cv_prog_gnu_ld in
        yes*) LD="{LD-ld} -m elf64_sparc" ;;
        *)
          if ${LD-ld} -64 -r -o conftest2.o conftest.o >/dev/null 2>&1; then
            LD="{LD-ld} -64"
          fi
        ;;
      esac
    ;;
  esac
fi
rm -rf conftest*
;;

AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
[*-*-cygwin* | *-*-mingw* | *-*-pw32*)
AC_CHECK_TOOL(DLLTOOL, dlltool, false)
AC_CHECK_TOOL(AS, as, false)
AC_CHECK_TOOL(OBJDUMP, objdump, false)
;;
])
esac

need_locks="$enable_libtool_lock"

])# _LT_AC_LOCK

```

```

# AC_LIBTOOL_COMPILER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS,
# [OUTPUT-FILE], [ACTION-SUCCESS], [ACTION-FAILURE])
# -----
# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_COMPILER_OPTION],
[AC_REQUIRE([LT_AC_PROG_SED])
AC_CACHE_CHECK([$1], [$2],
[$2=no
ifelse([$4], , [ac_outfile=conftest.$ac_objext], [ac_outfile=$4])
echo "$lt_simple_compile_test_code" > conftest.$ac_ext
lt_compiler_flag="$3"
# Insert the option either (1) after the last *FLAGS variable, or
# (2) before a word containing "conftest.", or (3) at the end.
# Note that $ac_compile itself does not contain backslashes and begins
# with a dollar sign (not a hyphen), so the echo should work correctly.
# The option is referenced via a variable to avoid confusing sed.
lt_compile='echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1\} :&$lt_compiler_flag :; t \
-e 's: [[^ ]*conftest\.: $lt_compiler_flag&;; t \
-e 's:$ :$lt_compiler_flag:'
(eval echo "\$as_me: __oline__: $lt_compile\" >&AS_MESSAGE_LOG_FD)
(eval "$lt_compile" 2>conftest.err)
ac_status=$?
cat conftest.err >&AS_MESSAGE_LOG_FD
echo "$as_me: __oline__: \ $? = $ac_status" >&AS_MESSAGE_LOG_FD
if (exit $ac_status) && test -s "$ac_outfile"; then
  # The compiler can only warn and ignore the option if not recognized
  # So say no if there are warnings other than the usual output.
  $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >conftest.exp
  $SED '/^$/d; /^ *+/d' conftest.exp >conftest.er2
  if test ! -s conftest.er2 || diff conftest.exp conftest.er2 >/dev/null; then
    $2=yes
  fi
fi
$rm conftest*
])

if test x"$2" = xyes; then
  ifelse([$5], , :, [$5])
else
  ifelse([$6], , :, [$6])
fi
])# AC_LIBTOOL_COMPILER_OPTION

# AC_LIBTOOL_LINKER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS,
# [ACTION-SUCCESS], [ACTION-FAILURE])
# -----

```

```

# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_LINKER_OPTION],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_CACHE_CHECK([$1], [$2],
[$2=no
save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $3"
echo "$lt_simple_link_test_code" > conftest.$ac_ext
if (eval $ac_link 2>conftest.err) && test -s conftest.$ac_ext; then
# The linker can only warn and ignore the option if not recognized
# So say no if there are warnings
if test -s conftest.err; then
# Append any errors to the config.log.
cat conftest.err 1>&AS_MESSAGE_LOG_FD
$echo "X$lt_linker_boilerplate" | $Xsed -e '/^$/d' > conftest.exp
$SED '/^$/d; /^ *+/d' conftest.err >conftest.er2
if diff conftest.exp conftest.er2 >/dev/null; then
$2=yes
fi
else
$2=yes
fi
fi
$rm -r conftest*
LDFLAGS="$save_LDFLAGS"
])

if test x"$[$2]" = xy; then
ifelse([$4], , :, [$4])
else
ifelse([$5], , :, [$5])
fi
])# AC_LIBTOOL_LINKER_OPTION

# AC_LIBTOOL_SYS_MAX_CMD_LEN
# -----
AC_DEFUN([AC_LIBTOOL_SYS_MAX_CMD_LEN],
[# find the maximum length of command line arguments
AC_MSG_CHECKING([the maximum length of command line arguments])
AC_CACHE_VAL([lt_cv_sys_max_cmd_len], [dnl
i=0
teststring="ABCD"

case $build_os in
msdosdjgpp*)
# On DJGPP, this test can blow up pretty badly due to problems in libc
# (any single argument exceeding 2000 bytes causes a buffer overrun

```

```

# during glob expansion). Even if it were fixed, the result of this
# check would be larger than it should be.
lt_cv_sys_max_cmd_len=12288; # 12K is about right
;;

gnu*)
# Under GNU Hurd, this test is not required because there is
# no limit to the length of command line arguments.
# Libtool will interpret -1 as no limit whatsoever
lt_cv_sys_max_cmd_len=-1;
;;

cygwin* | mingw*)
# On Win9x/ME, this test blows up -- it succeeds, but takes
# about 5 minutes as the teststring grows exponentially.
# Worse, since 9x/ME are not pre-emptively multitasking,
# you end up with a "frozen" computer, even though with patience
# the test eventually succeeds (with a max line length of 256k).
# Instead, let's just punt: use the minimum linelength reported by
# all of the supported platforms: 8192 (on NT/2K/XP).
lt_cv_sys_max_cmd_len=8192;
;;

amigaos*)
# On AmigaOS with pdksh, this test takes hours, literally.
# So we just punt and use a minimum line length of 8192.
lt_cv_sys_max_cmd_len=8192;
;;

netbsd* | freebsd* | openbsd* | darwin* | dragonfly*)
# This has been around since 386BSD, at least. Likely further.
if test -x /sbin/sysctl; then
  lt_cv_sys_max_cmd_len='/sbin/sysctl -n kern.argmax'
elif test -x /usr/sbin/sysctl; then
  lt_cv_sys_max_cmd_len='/usr/sbin/sysctl -n kern.argmax'
else
  lt_cv_sys_max_cmd_len=65536 # usable default for all BSDs
fi
# And add a safety zone
lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \ 4'
lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \ * 3'
;;

interix*)
# We know the value 262144 and hardcode it with a safety zone (like BSD)
lt_cv_sys_max_cmd_len=196608
;;

```

```

osf*)
# Dr. Hans Ekkehard Plesser reports seeing a kernel panic running configure
# due to this test when exec_disable_arg_limit is 1 on Tru64. It is not
# nice to cause kernel panics so lets avoid the loop below.
# First set a reasonable default.
lt_cv_sys_max_cmd_len=16384
#
if test -x /sbin/sysconfig; then
  case '/sbin/sysconfig -q proc exec_disable_arg_limit' in
    *1*) lt_cv_sys_max_cmd_len=-1 ;;
  esac
fi
;;
sco3.2v5*)
lt_cv_sys_max_cmd_len=102400
;;
sysv5* | sco5v6* | sysv4.2uw2*)
kargmax='grep ARG_MAX /etc/conf/cf.d/stune 2>/dev/null'
if test -n "$kargmax"; then
  lt_cv_sys_max_cmd_len='echo $kargmax | sed 's/.*[[ ]//''
else
  lt_cv_sys_max_cmd_len=32768
fi
;;
*)
lt_cv_sys_max_cmd_len='(getconf ARG_MAX) 2> /dev/null'
if test -n "$lt_cv_sys_max_cmd_len"; then
  lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \ 4'
  lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \ * 3'
else
  SHELL=${SHELL-${CONFIG_SHELL-/bin/sh}}
  while (test "X"$SHELL [$]0 --fallback-echo "X$teststring" 2>/dev/null \
    = "XX$teststring") >/dev/null 2>&1 &&
    new_result='expr "X$teststring" : ".*" 2>&1' &&
    lt_cv_sys_max_cmd_len=$new_result &&
    test $i != 17 # 1/2 MB should be enough
  do
    i='expr $i + 1'
    teststring=$teststring$teststring
  done
  teststring=
  # Add a significant safety factor because C++ compilers can tack on massive
  # amounts of additional arguments before passing them to the linker.
  # It appears as though 1/2 is a usable value.
  lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \ 2'
fi
;;
esac

```

```

)
if test -n $lt_cv_sys_max_cmd_len ; then
  AC_MSG_RESULT($lt_cv_sys_max_cmd_len)
else
  AC_MSG_RESULT(none)
fi
])# AC_LIBTOOL_SYS_MAX_CMD_LEN

# _LT_AC_CHECK_DLFCN
# -----
AC_DEFUN([_LT_AC_CHECK_DLFCN],
[AC_CHECK_HEADERS(dlfcn.h)dnl
])# _LT_AC_CHECK_DLFCN

# _LT_AC_TRY_DLOPEN_SELF (ACTION-IF-TRUE, ACTION-IF-TRUE-W-USCORE,
# ACTION-IF-FALSE, ACTION-IF-CROSS-COMPILING)
# -----
AC_DEFUN([_LT_AC_TRY_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "$cross_compiling" = yes; then :
  [$4]
else
  lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2
  lt_status=$lt_dlunknown
  cat > conftest.$ac_ext <<EOF
[#line __oline__ "configure"
#include "confdefs.h"

#if HAVE_DLFCN_H
#include <dlfcn.h>
#endif

#include <stdio.h>

#ifdef RTLD_GLOBAL
# define LT_DLGLOBAL RTLD_GLOBAL
#else
# ifdef DL_GLOBAL
# define LT_DLGLOBAL DL_GLOBAL
# else
# define LT_DLGLOBAL 0
# endif
#endif

/* We may have to define LT_DLLAZY_OR_NOW in the command line if we
find out it does not work in some platform. */

```

```

#ifndef LT_DLLAZY_OR_NOW
# ifdef RTLD_LAZY
#  define LT_DLLAZY_OR_NOW RTLD_LAZY
# else
#  ifdef DL_LAZY
#   define LT_DLLAZY_OR_NOW DL_LAZY
#  else
#   ifdef RTLD_NOW
#    define LT_DLLAZY_OR_NOW RTLD_NOW
#   else
#    ifdef DL_NOW
#     define LT_DLLAZY_OR_NOW DL_NOW
#    else
#     define LT_DLLAZY_OR_NOW 0
#    endif
#   endif
#  endif
# endif
#endif

#ifdef __cplusplus
extern "C" void exit (int);
#endif

void fnord() { int i=42;}
int main ()
{
void *self = dlopen (0, LT_DLGLOBAL|LT_DLLAZY_OR_NOW);
int status = $lt_dlunknown;

if (self)
{
if (dlsym (self,"fnord")) status = $lt_dlno_uscore;
else if (dlsym( self,"_fnord")) status = $lt_dlneed_uscore;
/* dlclose (self); */
}
else
puts (dlerror ());

exit (status);
}]
EOF
if AC_TRY_EVAL(ac_link) && test -s conftest${ac_exeext} 2>/dev/null; then
(./conftest; exit; ) >&AS_MESSAGE_LOG_FD 2>/dev/null
lt_status=$?
case x$lt_status in
x$lt_dlno_uscore) $1 ;;
x$lt_dlneed_uscore) $2 ;;

```



```

    x$lt_dunknown|x*) $3 ;;
esac
else :
  # compilation failed
  $3
fi
fi
rm -fr conftest*
])# _LT_AC_TRY_DLOPEN_SELF

# AC_LIBTOOL_DLOPEN_SELF
# -----
AC_DEFUN([AC_LIBTOOL_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "x$enable_dlopen" != xyes; then
  enable_dlopen=unknown
  enable_dlopen_self=unknown
  enable_dlopen_self_static=unknown
else
  lt_cv_dlopen=no
  lt_cv_dlopen_libs=

  case $host_os in
    beos*)
      lt_cv_dlopen="load_add_on"
      lt_cv_dlopen_libs=
      lt_cv_dlopen_self=yes
      ;;

    mingw* | pw32*)
      lt_cv_dlopen="LoadLibrary"
      lt_cv_dlopen_libs=
      ;;

    cygwin*)
      lt_cv_dlopen="dlopen"
      lt_cv_dlopen_libs=
      ;;

    darwin*)
      # if libdl is installed we need to link against it
      AC_CHECK_LIB([dl], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],[
      lt_cv_dlopen="dyld"
      lt_cv_dlopen_libs=
      lt_cv_dlopen_self=yes
      ])
  )

```

```

;;
*)
AC_CHECK_FUNC([shl_load],
[lt_cv_dlopen="shl_load"],
[AC_CHECK_LIB([dld], [shl_load],
[lt_cv_dlopen="shl_load" lt_cv_dlopen_libs="-ldld"],
[AC_CHECK_FUNC([dlopen],
[lt_cv_dlopen="dlopen"],
[AC_CHECK_LIB([dl], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],
[AC_CHECK_LIB([svld], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-lsvld"],
[AC_CHECK_LIB([dld], [dld_link],
[lt_cv_dlopen="dld_link" lt_cv_dlopen_libs="-ldld"])
])
])
])
])
])
;;
esac

if test "x$lt_cv_dlopen" != xno; then
enable_dlopen=yes
else
enable_dlopen=no
fi

case $lt_cv_dlopen in
dlopen)
save_CPPFLAGS="$CPPFLAGS"
test "x$ac_cv_header_dfcn_h" = xyes && CPPFLAGS="$CPPFLAGS -DHAVE_DLFCN_H"

save_LDFLAGS="$LDFLAGS"
wl=$lt_prog_compiler_wl eval LDFLAGS="\`$LDFLAGS $export_dynamic_flag_spec\`"

save_LIBS="$LIBS"
LIBS="$lt_cv_dlopen_libs $LIBS"

AC_CACHE_CHECK([whether a program can dlopen itself],
lt_cv_dlopen_self, [dnl
_LT_AC_TRY_DLOPEN_SELF(
lt_cv_dlopen_self=yes, lt_cv_dlopen_self=yes,
lt_cv_dlopen_self=no, lt_cv_dlopen_self=cross)
])

if test "x$lt_cv_dlopen_self" = xyes; then

```

```

wl=$lt_prog_compiler_wl eval LDFLAGS="\$LDFLAGS $lt_prog_compiler_static\"
AC_CACHE_CHECK([whether a statically linked program can dlopen itself],
lt_cv_dlopen_self_static, [dnl
_LT_AC_TRY_DLOPEN_SELF(
lt_cv_dlopen_self_static=yes, lt_cv_dlopen_self_static=yes,
lt_cv_dlopen_self_static=no, lt_cv_dlopen_self_static=cross)
])
fi

CPPFLAGS="$save_CPPFLAGS"
LDFLAGS="$save_LDFLAGS"
LIBS="$save_LIBS"
;;
esac

case $lt_cv_dlopen_self in
yes|no) enable_dlopen_self=$lt_cv_dlopen_self ;;
*) enable_dlopen_self=unknown ;;
esac

case $lt_cv_dlopen_self_static in
yes|no) enable_dlopen_self_static=$lt_cv_dlopen_self_static ;;
*) enable_dlopen_self_static=unknown ;;
esac
fi
])# AC_LIBTOOL_DLOPEN_SELF

# AC_LIBTOOL_PROG_CC_C_O([TAGNAME])
# -----
# Check to see if options -c and -o are simultaneously supported by compiler
AC_DEFUN([AC_LIBTOOL_PROG_CC_C_O],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_REQUIRE([_LT_AC_SYS_COMPILER])dnl
AC_CACHE_CHECK([if $compiler supports -c -o file.$ac_objext],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=no
$rm -r conftest 2>/dev/null
mkdir conftest
cd conftest
mkdir out
echo "$lt_simple_compile_test_code" > conftest.$ac_ext

lt_compiler_flag="-o out/conftest2.$ac_objext"
# Insert the option either (1) after the last *FLAGS variable, or
# (2) before a word containing "conftest.", or (3) at the end.
# Note that $ac_compile itself does not contain backslashes and begins
# with a dollar sign (not a hyphen), so the echo should work correctly.

```

```

lt_compile='echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1\} :&$lt_compiler_flag ;; t' \
-e 's: [[^ ]]*conftest\.: $lt_compiler_flag&;; t' \
-e 's:$ $lt_compiler_flag:'
(eval echo "\$as_me: __oline__: $lt_compile\" >&AS_MESSAGE_LOG_FD)
(eval "$lt_compile" 2>out/conftest.err)
ac_status=$?
cat out/conftest.err >&AS_MESSAGE_LOG_FD
echo "$as_me: __oline__: \ $? = $ac_status" >&AS_MESSAGE_LOG_FD
if (exit $ac_status) && test -s out/conftest2.$ac_objext
then
  # The compiler can only warn and ignore the option if not recognized
  # So say no if there are warnings
  $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' > out/conftest.exp
  $SED '/^$/d; /^ *+/d' out/conftest.err >out/conftest.er2
  if test ! -s out/conftest.er2 || diff out/conftest.exp out/conftest.er2 >/dev/null; then
    _LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes
  fi
fi
chmod u+w . 2>&AS_MESSAGE_LOG_FD
$rm conftest*
# SGI C++ compiler will create directory out/ii_files/ for
# template instantiation
test -d out/ii_files && $rm out/ii_files/* && rmdir out/ii_files
$rm out/* && rmdir out
cd ..
rmdir conftest
$rm conftest*
)
)# AC_LIBTOOL_PROG_CC_C_O

# AC_LIBTOOL_SYS_HARD_LINK_LOCKS([TAGNAME])
# -----
# Check to see if we can do hard links to lock some files if needed
AC_DEFUN([AC_LIBTOOL_SYS_HARD_LINK_LOCKS],
[AC_REQUIRE([_LT_AC_LOCK])dnl

hard_links="nottested"
if test "$_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)" = no && test "$need_locks" != no; then
  # do not overwrite the value of need_locks provided by the user
  AC_MSG_CHECKING([if we can lock with hard links])
  hard_links=yes
  $rm conftest*
  ln conftest.a conftest.b 2>/dev/null && hard_links=no
  touch conftest.a
  ln conftest.a conftest.b 2>&5 || hard_links=no
  ln conftest.a conftest.b 2>/dev/null && hard_links=no

```

```

AC_MSG_RESULT([$hard_links])
if test "$hard_links" = no; then
  AC_MSG_WARN(['$CC' does not support '-c -o', so 'make -j' may be unsafe])
  need_locks=warn
fi
else
  need_locks=no
fi
])# AC_LIBTOOL_SYS_HARD_LINK_LOCKS

```

```

# AC_LIBTOOL_OBJDIR
# -----
AC_DEFUN([AC_LIBTOOL_OBJDIR],
[AC_CACHE_CHECK([for objdir], [lt_cv_objdir],
[rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
if test -d .libs; then
  lt_cv_objdir=.libs
else
  # MS-DOS does not allow filenames that begin with a dot.
  lt_cv_objdir=_libs
fi
rmdir .libs 2>/dev/null])
objdir=$lt_cv_objdir
])# AC_LIBTOOL_OBJDIR

```

```

# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH([TAGNAME])
# -----
# Check hardcoding attributes.
AC_DEFUN([AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH],
[AC_MSG_CHECKING([how to hardcode library paths into programs])
_LT_AC_TAGVAR(hardcode_action, $1)=
if test -n "$_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)" || \
  test -n "$_LT_AC_TAGVAR(runpath_var, $1)" || \
  test "X$_LT_AC_TAGVAR(hardcode_automatic, $1)" = "Xyes" ; then

# We can hardcode non-existent directories.
if test "$_LT_AC_TAGVAR(hardcode_direct, $1)" != no &&
  # If the only mechanism to avoid hardcoding is shlibpath_var, we
  # have to relink, otherwise we might link with an installed library
  # when we should be linking with a yet-to-be-installed one
  ## test "$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)" != no &&
  test "$_LT_AC_TAGVAR(hardcode_minus_L, $1)" != no; then
# Linking always hardcodes the temporary library directory.
  _LT_AC_TAGVAR(hardcode_action, $1)=relink
else

```

```

# We can link without hardcoding, and we can hardcode nonexistent dirs.
_LT_AC_TAGVAR(hardcode_action, $1)=immediate
fi
else
# We cannot hardcode anything, or else we can only hardcode existing
# directories.
_LT_AC_TAGVAR(hardcode_action, $1)=unsupported
fi
AC_MSG_RESULT([$_LT_AC_TAGVAR(hardcode_action, $1)])

if test "$_LT_AC_TAGVAR(hardcode_action, $1)" = relink; then
# Fast installation is not supported
enable_fast_install=no
elif test "$shlibpath_overrides_runpath" = yes ||
test "$enable_shared" = no; then
# Fast installation is not necessary
enable_fast_install=needless
fi
])# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH

# AC_LIBTOOL_SYS_LIB_STRIP
# -----
AC_DEFUN([AC_LIBTOOL_SYS_LIB_STRIP],
[striplib=
old_striplib=
AC_MSG_CHECKING([whether stripping libraries is possible])
if test -n "$STRIP" && $STRIP -V 2>&1 | grep "GNU strip" >/dev/null; then
test -z "$old_striplib" && old_striplib="$STRIP --strip-debug"
test -z "$striplib" && striplib="$STRIP --strip-unneeded"
AC_MSG_RESULT([yes])
else
# FIXME - insert some real tests, host_os isn't really good enough
case $host_os in
darwin*)
if test -n "$STRIP" ; then
striplib="$STRIP -x"
old_striplib="$STRIP -S"
AC_MSG_RESULT([yes])
else
AC_MSG_RESULT([no])
fi
;;
*)
AC_MSG_RESULT([no])
;;
esac
fi

```

```

])# AC_LIBTOOL_SYS_LIB_STRIP

# AC_LIBTOOL_SYS_DYNAMIC_LINKER
# -----
# PORTME Fill in your ld.so characteristics
AC_DEFUN([AC_LIBTOOL_SYS_DYNAMIC_LINKER],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_MSG_CHECKING([dynamic linker characteristics])
library_names_spec=
libname_spec='lib$name'
soname_spec=
shrext_cmds=".so"
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlsearch_path_spec="/lib /usr/lib"
m4_if($1,[],[
if test "$GCC" = yes; then
case $host_os in
darwin*) lt_awk_arg="/^libraries:./LR/" ;;
*) lt_awk_arg="/^libraries:/" ;;
esac
lt_search_path_spec='$CC -print-search-dirs | awk $lt_awk_arg | $SED -e "s/^libraries:/" -e "s=/,/g"'
if echo "$lt_search_path_spec" | grep ';' >/dev/null ; then
# if the path contains ";" then we assume it to be the separator
# otherwise default to the standard path separator (i.e. ":") - it is
# assumed that no part of a normal pathname contains ";" but that should
# okay in the real world where ";" in dirpaths is itself problematic.
lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e "s;/ /g"'
else
lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e "s/$PATH_SEPARATOR/ /g"'
fi
# Ok, now we have the path, separated by spaces, we can step through it
# and add multilib dir if necessary.
lt_tmp_lt_search_path_spec=
lt_multi_os_dir='$CC $CPPFLAGS $CFLAGS $LDFLAGS -print-multi-os-directory 2>/dev/null'
for lt_sys_path in $lt_search_path_spec; do
if test -d "$lt_sys_path/$lt_multi_os_dir"; then
lt_tmp_lt_search_path_spec="$lt_tmp_lt_search_path_spec $lt_sys_path/$lt_multi_os_dir"
else
test -d "$lt_sys_path" && \
lt_tmp_lt_search_path_spec="$lt_tmp_lt_search_path_spec $lt_sys_path"

```

```

    fi
done
lt_search_path_spec='echo $lt_tmp_lt_search_path_spec | awk '
BEGIN {RS=" "; FS="/\\n";} {
lt_foo="";
lt_count=0;
for (lt_i = NF; lt_i > 0; lt_i--) {
  if ($lt_i != "" && $lt_i != ".") {
    if ($lt_i == "..") {
      lt_count++;
    } else {
      if (lt_count == 0) {
        lt_foo="/" $lt_i lt_foo;
      } else {
        lt_count--;
      }
    }
  }
}
if (lt_foo != "") { lt_freq[[lt_foo]]++; }
if (lt_freq[[lt_foo]] == 1) { print lt_foo; }
}"
sys_lib_search_path_spec='echo $lt_search_path_spec'
else
sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
fi)
need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -set_version
# flags to be left without arguments
need_version=unknown

case $host_os in
aix3*)
  version_type=linux
  library_names_spec='${libname}${release}${shared_ext}$versuffix $libname.a'
  shlibpath_var=LIBPATH

  # AIX 3 has no versioning support, so we append a major version to the name.
  soname_spec='${libname}${release}${shared_ext}$major'
  ;;

aix[[4-9]]*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  hardcode_into_libs=yes

```



```

if test "$host_cpu" = ia64; then
    # AIX 5 supports IA64
    library_names_spec='${libname}${release}${shared_ext}$major ${libname}${release}${shared_ext}$versuffix
$libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
else
    # With GCC up to 2.95.x, collect2 would create an import file
    # for dependence libraries. The import file would start with
    # the line '#! .'. This would cause the generated library to
    # depend on '.', always an invalid library. This was fixed in
    # development snapshots of GCC prior to 3.0.
    case $host_os in
        aix4 | aix4.[[01]] | aix4.[[01]].*)
            if { echo '#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >= 97)'
            echo 'yes'
            echo '#endif'; } | ${CC} -E - | grep yes > /dev/null; then
                :
            else
                can_build_shared=no
            fi
            ;;
        esac
        # AIX (on Power*) has no versioning support, so currently we can not hardcode correct
        # soname into executable. Probably we can add versioning support to
        # collect2, so additional links can be useful in future.
        if test "$aix_use_runtimelinking" = yes; then
            # If using run time linking (on AIX 4.2 or later) use lib<name>.so
            # instead of lib<name>.a to let people know that these are not
            # typical AIX shared libraries.
            library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
        else
            # We preserve .a as extension for shared libraries through AIX4.2
            # and later when we are not doing run time linking.
            library_names_spec='${libname}${release}.a $libname.a'
            soname_spec='${libname}${release}${shared_ext}$major'
        fi
        shlibpath_var=LIBPATH
    fi
    ;;

amigaos*)
    library_names_spec='$libname.ixlibrary $libname.a'
    # Create ${libname}_ixlibrary.a entries in /sys/libs.
    finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do libname=`$echo "X$lib" | $Xsed -e
\"s%^.*/\([^/]*\)\.ixlibrary%1%\"`; test $rm /sys/libs/${libname}_ixlibrary.a; $show "cd /sys/libs && $LN_S
$lib ${libname}_ixlibrary.a"; cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a || exit 1; done'
    ;;

```

```

beos*)
library_names_spec='${libname}${shared_ext}'
dynamic_linker="$host_os ld.so"
shlibpath_var=LIBRARY_PATH
;;

bsdi[[45]]*)
version_type=linux
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
finish_cmds='PATH="\$PATH:/sbin" ldconfig $libdir'
shlibpath_var=LD_LIBRARY_PATH
sys_lib_search_path_spec="/shlib /usr/lib /usr/X11/lib /usr/contrib/lib /lib /usr/local/lib"
sys_lib_dldsearch_path_spec="/shlib /usr/lib /usr/local/lib"
# the default ld.so.conf also contains /usr/contrib/lib and
# /usr/X11R6/lib (/usr/X11 is a link to /usr/X11R6), but let us allow
# libtool to hard-code these into programs
;;

cygwin* | mingw* | pw32*)
version_type=windows
shrext_cmds=".dll"
need_version=no
need_lib_prefix=no

case $GCC,$host_os in
yes,cygwin* | yes,mingw* | yes,pw32*)
library_names_spec='$libname.dll.a'
# DLL is installed to $(libdir)/../bin by postinstall_cmds
postinstall_cmds='base_file=basename \${file}~
dlpath=\"$SHELL 2>&1 -c \"`. $dir/\${base_file}\"`i;echo \${dlname}\"~
dldir=$destdir/`dirname \${dlpath}`~
test -d \${dldir} || mkdir -p \${dldir}~
$install_prog $dir/\${dlname} \${dldir}/\${dlname}~
chmod a+x \${dldir}/\${dlname}'
postuninstall_cmds='dldll=\"$SHELL 2>&1 -c \"`. $file; echo \${dlname}\"`~
dlpath=$dir/\${dldll}~
$rm \${dlpath}'
shlibpath_overrides_runpath=yes

case $host_os in
cygwin*)
# Cygwin DLLs use 'cyg' prefix rather than 'lib'
soname_spec="echo \${libname} | sed -e 's/^lib/cyg/'"echo \${release} | $SED -e 's/[./]/-/'
/g"${versuffix}"${shared_ext}'

```

```

sys_lib_search_path_spec="/usr/lib /lib/w32api /lib /usr/local/lib"
;;
mingw*)
# MinGW DLLs use traditional 'lib' prefix
soname_spec='${libname}'echo ${release} | $SED -e 's/[.]/-/g"${versuffix}"${shared_ext}'
sys_lib_search_path_spec='$CC -print-search-dirs | grep "^libraries:" | $SED -e "s/^libraries:/" -e "s,=,/,g"'
if echo "$sys_lib_search_path_spec" | [grep ';[c-zC-Z]:/' >/dev/null]; then
# It is most probably a Windows format PATH printed by
# mingw gcc, but we are running on Cygwin. Gcc prints its search
# path with ; separators, and with drive letters. We can handle the
# drive letters (cygwin fileutils understands them), so leave them,
# especially as we might pass files found there to a mingw objdump,
# which wouldn't understand a cygwinified path. Ahh.
sys_lib_search_path_spec='echo "$sys_lib_search_path_spec" | $SED -e 's;/ /g'
else
sys_lib_search_path_spec='echo "$sys_lib_search_path_spec" | $SED -e "s/$PATH_SEPARATOR/ /g"'
fi
;;
pw32*)
# pw32 DLLs use 'pw' prefix rather than 'lib'
library_names_spec="echo ${libname} | sed -e 's/^lib/pw/'echo ${release} | $SED -e 's/[.]/-/g"${versuffix}"${shared_ext}'
;;
esac
;;

*)
library_names_spec='${libname}'echo ${release} | $SED -e 's/[.]/-/g"${versuffix}"${shared_ext} $libname.lib'
;;
esac
dynamic_linker='Win32 ld.exe'
# FIXME: first we should search . and the directory the executable is in
shlibpath_var=PATH
;;

darwin* | rhapsody*)
dynamic_linker="$host_os dyld"
version_type=darwin
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${versuffix}${shared_ext} ${libname}${release}${major}${shared_ext}
${libname}${shared_ext}'
soname_spec='${libname}${release}${major}${shared_ext}'
shlibpath_overrides_runpath=yes
shlibpath_var=DYLD_LIBRARY_PATH
shrext_cmds="test .$module = .yes && echo .so || echo .dylib"
m4_if([$1], [], [
sys_lib_search_path_spec="$sys_lib_search_path_spec /usr/local/lib"])

```

```

sys_lib_dlsearch_path_spec='/usr/local/lib /lib /usr/lib'
;;

dgux*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname$shared_ext'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
;;

freebsd1*)
dynamic_linker=no
;;

freebsd* | dragonfly*)
# DragonFly does not have aout. When/if they implement a new
# versioning mechanism, adjust this.
if test -x /usr/bin/objformat; then
  objformat='/usr/bin/objformat'
else
  case $host_os in
    freebsd[[123]]*) objformat=aout ;;
    *) objformat=elf ;;
  esac
fi
version_type=freebsd-$objformat
case $version_type in
  freebsd-elf*)
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}
$libname${shared_ext}'
    need_version=no
    need_lib_prefix=no
    ;;
  freebsd-*)
    library_names_spec='${libname}${release}${shared_ext}$versuffix $libname${shared_ext}$versuffix'
    need_version=yes
    ;;
  esac
shlibpath_var=LD_LIBRARY_PATH
case $host_os in
  freebsd2*)
    shlibpath_overrides_runpath=yes
    ;;
  freebsd3.[[01]]* | freebsdelf3.[[01]]*)
    shlibpath_overrides_runpath=yes

```

```

hardcode_into_libs=yes
;;
freebsd3.[[2-9]]* | freebsdelf3.[[2-9]]* | \
freebsd4.[[0-5]] | freebsdelf4.[[0-5]] | freebsd4.1.1 | freebsdelf4.1.1)
shlibpath_overrides_runpath=no
hardcode_into_libs=yes
;;
*) # from 4.6 on, and DragonFly
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes
;;
esac
;;

gnu*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}${major}
${libname}${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
hardcode_into_libs=yes
;;

hpux9* | hpux10* | hpux11*)
# Give a soname corresponding to the major version so that dld.sl refuses to
# link against other versions.
version_type=sunos
need_lib_prefix=no
need_version=no
case $host_cpu in
ia64*)
shrext_cmds='.so'
hardcode_into_libs=yes
dynamic_linker="$host_os dld.so"
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
if test "X$HPUX_IA64_MODE" = X32; then
sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32 /usr/local/lib"
else
sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
fi
sys_lib_dldsearch_path_spec=$sys_lib_search_path_spec
;;

```

```

hppa*64*)
    shrext_cmds='.sl'
    hardcode_into_libs=yes
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
    shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    sys_lib_search_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
*)
    shrext_cmds='.sl'
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=SHLIB_PATH
    shlibpath_overrides_runpath=no # +s is required to enable SHLIB_PATH
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    ;;
esac
# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'
;;

interix[[3-9]]*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    dynamic_linker='Interix 3.x ld.so.1 (PE, like ELF)'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    ;;

irix5* | irix6* | nonstopux*)
    case $host_os in
        nonstopux*) version_type=nonstopux ;;
        *)
            if test "$lt_cv_prog_gnu_ld" = yes; then
                version_type=linux
            else
                version_type=irix
            fi ;;
    esac

```

```

esac
need_lib_prefix=no
need_version=no
soname_spec='${libname}${release}${shared_ext}$major'
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
${libname}${release}${shared_ext} $libname${shared_ext}'
case $host_os in
irix5* | nonstopux*)
    libsuff= shlibsuff=
    ;;
*)
    case $LD in # libtool.m4 will add one of these switches to LD
*-32|*-32 "|*-melf32bsmip|*-melf32bsmip ")
        libsuff= shlibsuff= libmagic=32-bit;;
*-n32|*-n32 "|*-melf32bmipn32|*-melf32bmipn32 ")
        libsuff=32 shlibsuff=N32 libmagic=N32;;
*-64|*-64 "|*-melf64bmip|*-melf64bmip ")
        libsuff=64 shlibsuff=64 libmagic=64-bit;;
*) libsuff= shlibsuff= libmagic=never-match;;
esac
    ;;
esac
shlibpath_var=LD_LIBRARY${shlibsuff}_PATH
shlibpath_overrides_runpath=no
sys_lib_search_path_spec="/usr/lib${libsuff} /lib${libsuff} /usr/local/lib${libsuff}"
sys_lib_dldsearch_path_spec="/usr/lib${libsuff} /lib${libsuff}"
hardcode_into_libs=yes
;;

# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
    dynamic_linker=no
    ;;

# This must be Linux ELF.
linux* | k*bsd*-gnu)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    finish_cmds='PATH="\$PATH:/sbin" ldconfig -n $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    # This implies no fast_install, which is unacceptable.
    # Some rework will be needed to allow for fast_install
    # before this can be enabled.

```

```

hardcode_into_libs=yes

# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
    lt_ld_extra='awk '/^include / { system(sprintf("cd /etc; cat %s 2>/dev/null", \[$2])); skip = 1; } { if (!skip) print
\[$0; skip = 0; }' < /etc/ld.so.conf | $SED -e 's/#.*//;/^[ ]*hwcap[ ]/d;s/[:, ]/ /g;s/[^=]*$//;s/[^= ]* / /g;^$/d' | tr '\n' '
'
    sys_lib_dlsearch_path_spec="/lib /usr/lib $lt_ld_extra"
fi

# We used to test for /lib/ld.so.1 and disable shared libraries on
# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker. Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.
dynamic_linker='GNU/Linux ld.so'
;;

netbsd*)
version_type=sunos
need_lib_prefix=no
need_version=no
if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
    finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
    dynamic_linker='NetBSD (a.out) ld.so'
else
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    dynamic_linker='NetBSD ld.elf_so'
fi
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes
;;

newsos6)
version_type=linux
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
;;

nto-qnx*)
version_type=linux

```



```

need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
;;

openbsd*)
version_type=sunos
sys_lib_dlsearch_path_spec="/usr/lib"
need_lib_prefix=no
# Some older versions of OpenBSD (3.3 at least) *do* need versioned libs.
case $host_os in
  openbsd3.3 | openbsd3.3.*) need_version=yes ;;
  *) need_version=no ;;
esac
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
shlibpath_var=LD_LIBRARY_PATH
if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
  case $host_os in
    openbsd2.[[89]] | openbsd2.[[89]].*)
shlibpath_overrides_runpath=no
;;
  *)
shlibpath_overrides_runpath=yes
;;
  esac
else
  shlibpath_overrides_runpath=yes
fi
;;

os2*)
libname_spec='$name'
shrext_cmds=".dll"
need_lib_prefix=no
library_names_spec='$libname${shared_ext} $libname.a'
dynamic_linker='OS/2 ld.exe'
shlibpath_var=LIBPATH
;;

osf3* | osf4* | osf5*)
version_type=osf
need_lib_prefix=no
need_version=no

```

```

soname_spec='${libname}${release}${shared_ext}$major'
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
shlibpath_var=LD_LIBRARY_PATH
sys_lib_search_path_spec="/usr/shlib /usr/ccs/lib /usr/lib/cmplrs/cc /usr/lib /usr/local/lib /var/shlib"
sys_lib_dlsearch_path_spec="$sys_lib_search_path_spec"
;;

rdos*)
dynamic_linker=no
;;

solaris*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes
# ldd complains unless libraries are executable
postinstall_cmds='chmod +x $lib'
;;

sunos4*)
version_type=sunos
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
finish_cmds='PATH="$PATH:/usr/etc" ldconfig $libdir'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
if test "$with_gnu_ld" = yes; then
    need_lib_prefix=no
fi
need_version=yes
;;

sysv4 | sysv4.3*)
version_type=linux
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
case $host_vendor in
    sni)
        shlibpath_overrides_runpath=no
        need_lib_prefix=no

```

```

export_dynamic_flag_spec='${wl}-Blargedynsym'
runpath_var=LD_RUN_PATH
;;
siemens)
need_lib_prefix=no
;;
motorola)
need_lib_prefix=no
need_version=no
shlibpath_overrides_runpath=no
sys_lib_search_path_spec='/lib /usr/lib /usr/ccs/lib'
;;
esac
;;

sysv4*MP*)
if test -d /usr/nec ;then
version_type=linux
library_names_spec='${libname}${shared_ext}.$versuffix $libname${shared_ext}.$major $libname${shared_ext}'
soname_spec='${libname}${shared_ext}.$major'
shlibpath_var=LD_LIBRARY_PATH
fi
;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
version_type=freebsd-elf
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
hardcode_into_libs=yes
if test "$with_gnu_ld" = yes; then
sys_lib_search_path_spec='/usr/local/lib /usr/gnu/lib /usr/ccs/lib /usr/lib /lib'
shlibpath_overrides_runpath=no
else
sys_lib_search_path_spec='/usr/ccs/lib /usr/lib'
shlibpath_overrides_runpath=yes
case $host_os in
sco3.2v5*)
sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"
;;
esac
fi
sys_lib_dlsearch_path_spec='/usr/lib'
;;

```

```

uts4*)
  version_type=linux
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  shlibpath_var=LD_LIBRARY_PATH
  ;;

*)
  dynamic_linker=no
  ;;
esac
AC_MSG_RESULT([$dynamic_linker])
test "$dynamic_linker" = no && can_build_shared=no

AC_CACHE_VAL([lt_cv_sys_lib_search_path_spec],
[lt_cv_sys_lib_search_path_spec="$sys_lib_search_path_spec"])
sys_lib_search_path_spec="$lt_cv_sys_lib_search_path_spec"
AC_CACHE_VAL([lt_cv_sys_lib_dlsearch_path_spec],
[lt_cv_sys_lib_dlsearch_path_spec="$sys_lib_dlsearch_path_spec"])
sys_lib_dlsearch_path_spec="$lt_cv_sys_lib_dlsearch_path_spec"

variables_saved_for_relink="PATH $shlibpath_var $runpath_var"
if test "$GCC" = yes; then
  variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX COMPILER_PATH
LIBRARY_PATH"
fi
])# AC_LIBTOOL_SYS_DYNAMIC_LINKER

# _LT_AC_TAGCONFIG
# -----
AC_DEFUN([_LT_AC_TAGCONFIG],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_ARG_WITH([tags],
  [AC_HELP_STRING([--with-tags@<:@=TAGS@:>@],
    [include additional configurations @<:@automatic@:>@]),
  [tagnames="$withval"])

if test -f "$ltmain" && test -n "$tagnames"; then
if test ! -f "${ofile}"; then
  AC_MSG_WARN([output file '$ofile' does not exist])
fi

if test -z "$LTCC"; then
  eval ""$SHELL ${ofile} --config | grep '^LTCC='""
  if test -z "$LTCC"; then
    AC_MSG_WARN([output file '$ofile' does not look like a libtool script])

```

```

else
    AC_MSG_WARN([using 'LTCC=$LTCC', extracted from '$ofile'])
fi
fi
if test -z "$LTCFLAGS"; then
    eval "$SHELL ${ofile} --config | grep '^LTCFLAGS='"
fi

# Extract list of available tagged configurations in $ofile.
# Note that this assumes the entire list is on one line.
available_tags='grep "^available_tags=" "${ofile}" | $SED -e 's/available_tags=(.*)/1/' -e 's/^//g'

lt_save_ifs="$IFS"; IFS="{IFS}$PATH_SEPARATOR,"
for tagname in $tagnames; do
    IFS="$lt_save_ifs"
    # Check whether tagname contains only valid characters
    case `echo "X$tagname" | $Xsed -e 's:[-
_ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz1234567890,/]::g' in
        ""` ;;
    *) AC_MSG_ERROR([invalid tag name: $tagname])
    ;;
esac

if grep "^# ### BEGIN LIBTOOL TAG CONFIG: $tagname$" < "${ofile}" > /dev/null
then
    AC_MSG_ERROR([tag name \"$tagname\" already exists])
fi

# Update the list of available tags.
if test -n "$tagname"; then
    echo appending configuration tag \"$tagname\" to $ofile

    case $tagname in
        CXX)
if test -n "$CXX" && ( test "X$CXX" != "Xno" &&
    ( (test "X$CXX" = "Xg++" && 'g++ -v >/dev/null 2>&1' ) ||
    (test "X$CXX" != "Xg++")) ); then
        AC_LIBTOOL_LANG_CXX_CONFIG
    else
        tagname=""
    fi
    ;;

        F77)
if test -n "$F77" && test "X$F77" != "Xno"; then
        AC_LIBTOOL_LANG_F77_CONFIG
    else
        tagname=""

```

```

fi
;;

    GCJ)
if test -n "$GCJ" && test "X$GCJ" != "Xno"; then
    AC_LIBTOOL_LANG_GCJ_CONFIG
else
    tagname=""
fi
;;

    RC)
AC_LIBTOOL_LANG_RC_CONFIG
;;

    *)
AC_MSG_ERROR([Unsupported tag name: $tagname])
;;
    esac

    # Append the new tag name to the list of available tags.
    if test -n "$tagname" ; then
        available_tags="$available_tags $tagname"
    fi
fi
done
IFS="$lt_save_ifs"

# Now substitute the updated list of available tags.
if eval "sed -e 's/^available_tags=.*\$/available_tags=\"$available_tags\"/' \"$ofile\" > \"\${ofile}T\""; then
    mv "\${ofile}T" "$ofile"
    chmod +x "$ofile"
else
    rm -f "\${ofile}T"
    AC_MSG_ERROR([unable to update list of available tagged configurations.])
fi
fi
])# _LT_AC_TAGCONFIG

# AC_LIBTOOL_DLOPEN
# -----
# enable checks for dlopen support
AC_DEFUN([AC_LIBTOOL_DLOPEN],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])
])# AC_LIBTOOL_DLOPEN

```

```

# AC_LIBTOOL_WIN32_DLL
# -----
# declare package support for building win32 DLLs
AC_DEFUN([AC_LIBTOOL_WIN32_DLL],
[AC_BEFORE([$0], [AC_LIBTOOL_SETUP])
])# AC_LIBTOOL_WIN32_DLL

# AC_ENABLE_SHARED([DEFAULT])
# -----
# implement the --enable-shared flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_SHARED],
[define([AC_ENABLE_SHARED_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([shared],
  [AC_HELP_STRING([--enable-shared@<:@=PKGS@:>@],
    [build shared libraries @<:@default=]AC_ENABLE_SHARED_DEFAULT[@:>@]),
  [p=${PACKAGE-default}
  case $enableval in
  yes) enable_shared=yes ;;
  no) enable_shared=no ;;
  *)
  enable_shared=no
  # Look at the argument we got. We use all the common list separators.
  lt_save_ifs="$IFS"; IFS="${IFS}$PATH_SEPARATOR,"
  for pkg in $enableval; do
  IFS="$lt_save_ifs"
  if test "X$pkg" = "X$p"; then
  enable_shared=yes
  fi
  done
  IFS="$lt_save_ifs"
  ;;
  esac],
  [enable_shared=]AC_ENABLE_SHARED_DEFAULT)
])# AC_ENABLE_SHARED

# AC_DISABLE_SHARED
# -----
# set the default shared flag to --disable-shared
AC_DEFUN([AC_DISABLE_SHARED],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_SHARED(no)
])# AC_DISABLE_SHARED

# AC_ENABLE_STATIC([DEFAULT])

```

```

# -----
# implement the --enable-static flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_STATIC],
[define([AC_ENABLE_STATIC_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([static],
  [AC_HELP_STRING([--enable-static@<:@=PKGS@:>@],
    [build static libraries @<:@default=]AC_ENABLE_STATIC_DEFAULT[@:>@]),
  [p=${PACKAGE-default}
  case $enableval in
  yes) enable_static=yes ;;
  no) enable_static=no ;;
  *)
  enable_static=no
  # Look at the argument we got. We use all the common list separators.
  lt_save_ifs="$IFS"; IFS=" ${IFS} $PATH_SEPARATOR,"
  for pkg in $enableval; do
IFS="$lt_save_ifs"
if test "X$pkg" = "X$p"; then
  enable_static=yes
fi
done
IFS="$lt_save_ifs"
;;
esac],
[enable_static=]AC_ENABLE_STATIC_DEFAULT)
])# AC_ENABLE_STATIC

# AC_DISABLE_STATIC
# -----
# set the default static flag to --disable-static
AC_DEFUN([AC_DISABLE_STATIC],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_STATIC(no)
])# AC_DISABLE_STATIC

# AC_ENABLE_FAST_INSTALL([DEFAULT])
# -----
# implement the --enable-fast-install flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_FAST_INSTALL],
[define([AC_ENABLE_FAST_INSTALL_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([fast-install],
  [AC_HELP_STRING([--enable-fast-install@<:@=PKGS@:>@],
    [optimize for fast installation @<:@default=]AC_ENABLE_FAST_INSTALL_DEFAULT[@:>@]),
  [p=${PACKAGE-default}

```



```

case $enableval in
yes) enable_fast_install=yes ;;
no) enable_fast_install=no ;;
*)
enable_fast_install=no
# Look at the argument we got. We use all the common list separators.
lt_save_ifs="$IFS"; IFS="{IFS}$PATH_SEPARATOR,"
for pkg in $enableval; do
IFS="$lt_save_ifs"
if test "X$pkg" = "X$p"; then
enable_fast_install=yes
fi
done
IFS="$lt_save_ifs"
;;
esac],
[enable_fast_install=]AC_ENABLE_FAST_INSTALL_DEFAULT)
])# AC_ENABLE_FAST_INSTALL

```

```

# AC_DISABLE_FAST_INSTALL
# -----
# set the default to --disable-fast-install
AC_DEFUN([AC_DISABLE_FAST_INSTALL],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_FAST_INSTALL(no)
])# AC_DISABLE_FAST_INSTALL

```

```

# AC_LIBTOOL_PICMODE([MODE])
# -----
# implement the --with-pic flag
# MODE is either 'yes' or 'no'. If omitted, it defaults to 'both'.
AC_DEFUN([AC_LIBTOOL_PICMODE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
pic_mode=ifelse($#,1,$1,default)
])# AC_LIBTOOL_PICMODE

```

```

# AC_PROG_EGREP
# -----
# This is predefined starting with Autoconf 2.54, so this conditional
# definition can be removed once we require Autoconf 2.54 or later.
m4_ifndef([AC_PROG_EGREP], [AC_DEFUN([AC_PROG_EGREP],
[AC_CACHE_CHECK([for egrep], [ac_cv_prog_egrep],
[if echo a | (grep -E '(a|b)') >/dev/null 2>&1
then ac_cv_prog_egrep='grep -E'
else ac_cv_prog_egrep='egrep'

```

```

fi)
EGREP=$ac_cv_prog_egrep
AC_SUBST([EGREP])
))

```

```

# AC_PATH_TOOL_PREFIX
# -----
# find a file program which can recognize shared library
AC_DEFUN([AC_PATH_TOOL_PREFIX],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_MSG_CHECKING([for $1])
AC_CACHE_VAL([lt_cv_path_MAGIC_CMD],
[case $MAGIC_CMD in
[[\V*] | ?:[\V]*)
lt_cv_path_MAGIC_CMD="$MAGIC_CMD" # Let the user override the test with a path.
;;
*)
lt_save_MAGIC_CMD="$MAGIC_CMD"
lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
dnl $ac_dummy forces splitting on constant user-supplied paths.
dnl POSIX.2 word splitting is done only on the output of word expansions,
dnl not every word. This closes a longstanding sh security hole.
ac_dummy="ifelse([$2], , $PATH, [$2])"
for ac_dir in $ac_dummy; do
IFS="$lt_save_ifs"
test -z "$ac_dir" && ac_dir=.
if test -f $ac_dir/$1; then
lt_cv_path_MAGIC_CMD="$ac_dir/$1"
if test -n "$file_magic_test_file"; then
case $deplibs_check_method in
"file_magic" *)
file_magic_regex='expr "$deplibs_check_method" : "file_magic \(.*\) "'
MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if eval $file_magic_cmd \$file_magic_test_file 2> /dev/null |
EGREP "$file_magic_regex" > /dev/null; then
:
else
cat <<EOF 1>&2

```

```

*** Warning: the command libtool uses to detect shared libraries,
*** $file_magic_cmd, produces output that libtool cannot recognize.
*** The result is that libtool may fail to recognize shared libraries
*** as such. This will affect the creation of libtool libraries that
*** depend on shared libraries, but programs linked with such libtool
*** libraries will work regardless of this problem. Nevertheless, you
*** may want to report the problem to your system manager and/or to
*** bug-libtool@gnu.org

```

```

EOF
  fi ;;
esac
  fi
  break
  fi
done
IFS="$lt_save_ifs"
MAGIC_CMD="$lt_save_MAGIC_CMD"
;;
esac)
MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if test -n "$MAGIC_CMD"; then
  AC_MSG_RESULT($MAGIC_CMD)
else
  AC_MSG_RESULT(no)
fi
])# AC_PATH_TOOL_PREFIX

# AC_PATH_MAGIC
# -----
# find a file program which can recognize a shared library
AC_DEFUN([AC_PATH_MAGIC],
[AC_PATH_TOOL_PREFIX(${ac_tool_prefix}file, /usr/bin$PATH_SEPARATOR$PATH)
if test -z "$lt_cv_path_MAGIC_CMD"; then
if test -n "$ac_tool_prefix"; then
  AC_PATH_TOOL_PREFIX(file, /usr/bin$PATH_SEPARATOR$PATH)
else
  MAGIC_CMD=:
fi
fi
])# AC_PATH_MAGIC

# AC_PROG_LD
# -----
# find the pathname to the GNU or non-GNU linker
AC_DEFUN([AC_PROG_LD],
[AC_ARG_WITH([gnu-ld],
  [AC_HELP_STRING([--with-gnu-ld],
  [assume the C compiler uses GNU ld @<:@default=no@:>@])],
  [test "$withval" = no || with_gnu_ld=yes],
  [with_gnu_ld=no])
AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_REQUIRE([AC_PROG_CC])dnl
AC_REQUIRE([AC_CANONICAL_HOST])dnl

```

```

AC_REQUIRE([AC_CANONICAL_BUILD])dnl
ac_prog=ld
if test "$GCC" = yes; then
  # Check if gcc -print-prog-name=ld gives a path.
  AC_MSG_CHECKING([for ld used by $CC])
  case $host in
    *-*-mingw*)
      # gcc leaves a trailing carriage return which upsets mingw
      ac_prog='($CC -print-prog-name=ld) 2>&5 | tr -d "\015" ;;
*)
      ac_prog='($CC -print-prog-name=ld) 2>&5' ;;
  esac
  case $ac_prog in
    # Accept absolute paths.
    [[\V]]* | ?:[[ \V]]*)
      re_direlt='[[^/]]*[[^/]]*\.\./'
      # Canonicalize the pathname of ld
      ac_prog='echo $ac_prog | $SED 's%\\|%g"'
      while echo $ac_prog | grep "$re_direlt" > /dev/null 2>&1; do
        ac_prog='echo $ac_prog | $SED "s%$re_direlt%/"'
      done
      test -z "$LD" && LD="$ac_prog"
      ;;
    "")
      # If it fails, then pretend we aren't using GCC.
      ac_prog=ld
      ;;
    *)
      # If it is relative, then search for the first ld in PATH.
      with_gnu_ld=unknown
      ;;
  esac
  elif test "$with_gnu_ld" = yes; then
    AC_MSG_CHECKING([for GNU ld])
  else
    AC_MSG_CHECKING([for non-GNU ld])
  fi
  AC_CACHE_VAL([lt_cv_path_LD],
  [if test -z "$LD"; then
    lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
    for ac_dir in $PATH; do
      IFS="$lt_save_ifs"
      test -z "$ac_dir" && ac_dir=.
      if test -f "$ac_dir/$ac_prog" || test -f "$ac_dir/$ac_prog$ac_exeext"; then
        lt_cv_path_LD="$ac_dir/$ac_prog"
        # Check to see if the program is GNU ld. I'd rather use --version,
        # but apparently some variants of GNU ld only accept -v.
        # Break only if it was the GNU/non-GNU ld that we prefer.

```

```

    case "$lt_cv_path_LD" -v 2>&1 </dev/null' in
        *GNU* | *with BFD*)
    test "$with_gnu_ld" != no && break
    ;;
    *)
    test "$with_gnu_ld" != yes && break
    ;;
    esac
    fi
done
IFS="$lt_save_ifs"
else
    lt_cv_path_LD="$LD" # Let the user override the test with a path.
fi)
LD="$lt_cv_path_LD"
if test -n "$LD"; then
    AC_MSG_RESULT($LD)
else
    AC_MSG_RESULT(no)
fi
test -z "$LD" && AC_MSG_ERROR([no acceptable ld found in \${PATH}])
AC_PROG_LD_GNU
])# AC_PROG_LD

# AC_PROG_LD_GNU
# -----
AC_DEFUN([AC_PROG_LD_GNU],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_CACHE_CHECK([if the linker ($LD) is GNU ld], lt_cv_prog_gnu_ld,
[# I'd rather use --version here, but apparently some GNU lds only accept -v.
case '$LD -v 2>&1 </dev/null' in
    *GNU* | *with BFD*)
    lt_cv_prog_gnu_ld=yes
    ;;
    *)
    lt_cv_prog_gnu_ld=no
    ;;
    esac])
with_gnu_ld=$lt_cv_prog_gnu_ld
])# AC_PROG_LD_GNU

# AC_PROG_LD_RELOAD_FLAG
# -----
# find reload flag for linker
# -- PORTME Some linkers may need a different reload flag.
AC_DEFUN([AC_PROG_LD_RELOAD_FLAG],

```

```

[AC_CACHE_CHECK([for $LD option to reload object files],
lt_cv_ld_reload_flag,
[lt_cv_ld_reload_flag='-r'])
reload_flag=$lt_cv_ld_reload_flag
case $reload_flag in
"" | " "*);;
*) reload_flag="$reload_flag" ;;
esac
reload_cmds='$LD$reload_flag -o $output$reload_objs'
case $host_os in
darwin*)
if test "$GCC" = yes; then
reload_cmds='$LTCC $LTCFLAGS -nostdlib ${wl}-r -o $output$reload_objs'
else
reload_cmds='$LD$reload_flag -o $output$reload_objs'
fi
;;
esac
])# AC_PROG_LD_RELOAD_FLAG

```

```

# AC_DEPLIBS_CHECK_METHOD
# -----
# how to check for library dependencies
# -- PORTME fill in with the dynamic library characteristics
AC_DEFUN([AC_DEPLIBS_CHECK_METHOD],
[AC_CACHE_CHECK([how to recognize dependent libraries],
lt_cv_deplibs_check_method,
[lt_cv_file_magic_cmd='$MAGIC_CMD'
lt_cv_file_magic_test_file=
lt_cv_deplibs_check_method='unknown'
# Need to set the preceding variable on all platforms that support
# interlibrary dependencies.
# 'none' -- dependencies not supported.
# 'unknown' -- same as none, but documents that we really don't know.
# 'pass_all' -- all dependencies passed with no checks.
# 'test_compile' -- check by making test program.
# 'file_magic [[regex]]' -- check by looking for files in library path
# which responds to the $file_magic_cmd with a given extended regex.
# If you have 'file' or equivalent on your system and you're not sure
# whether 'pass_all' will *always* work, you probably want this one.

case $host_os in
aix[[4-9]]*)
lt_cv_deplibs_check_method=pass_all
;;

beos*)

```

```

lt_cv_deplibs_check_method=pass_all
;;

bsdi[[45]]*)
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (shared object|dynamic lib)'
lt_cv_file_magic_cmd='/usr/bin/file -L'
lt_cv_file_magic_test_file=/shlib/libc.so
;;

cygwin*)
# func_win32_libid is a shell function defined in ltmain.sh
lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
lt_cv_file_magic_cmd='func_win32_libid'
;;

mingw* | pw32*)
# Base MSYS/MinGW do not provide the 'file' command needed by
# func_win32_libid shell function, so use a weaker test based on 'objdump',
# unless we find 'file', for example because we are cross-compiling.
if ( file / ) >/dev/null 2>&1; then
  lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
  lt_cv_file_magic_cmd='func_win32_libid'
else
  lt_cv_deplibs_check_method='file_magic file format pei*-i386(.*architecture: i386)?'
  lt_cv_file_magic_cmd='$OBJDUMP -f'
fi
;;

darwin* | rhapsody*)
lt_cv_deplibs_check_method=pass_all
;;

freebsd* | dragonfly*)
if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
  case $host_cpu in
    i*86 )
      # Not sure whether the presence of OpenBSD here was a mistake.
      # Let's accept both of them until this is cleared up.
      lt_cv_deplibs_check_method='file_magic (FreeBSD|OpenBSD|DragonFly)/i[[3-9]]86 (compact )?demand paged
shared library'
      lt_cv_file_magic_cmd=/usr/bin/file
      lt_cv_file_magic_test_file='echo /usr/lib/libc.so.*'
      ;;
    esac
  else
    lt_cv_deplibs_check_method=pass_all
  fi
;;

```

```

gnu*)
lt_cv_deplibs_check_method=pass_all
;;

hpux10.20* | hpux11*)
lt_cv_file_magic_cmd=/usr/bin/file
case $host_cpu in
ia64*)
lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]]ELF-[[0-9]][[0-9]]) shared object file - IA64'
lt_cv_file_magic_test_file=/usr/lib/hpux32/libc.so
;;
hppa*64*)
[lt_cv_deplibs_check_method='file_magic (s[0-9][0-9][0-9]ELF-[0-9][0-9]) shared object file - PA-RISC [0-9].[0-9]']
lt_cv_file_magic_test_file=/usr/lib/pa20_64/libc.sl
;;
*)
lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]]PA-RISC[[0-9]].[[0-9]]) shared library'
lt_cv_file_magic_test_file=/usr/lib/libc.sl
;;
esac
;;

interix[[3-9]]*)
# PIC code is broken on Interix 3.x, that's why \,a not |_pic\,a here
lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so\,a)$'
;;

irix5* | irix6* | nonstopux*)
case $LD in
*-32|*-32 ") libmagic=32-bit;;
*-n32|*-n32 ") libmagic=N32;;
*-64|*-64 ") libmagic=64-bit;;
*) libmagic=never-match;;
esac
lt_cv_deplibs_check_method=pass_all
;;

# This must be Linux ELF.
linux* | k*bsd*-gnu)
lt_cv_deplibs_check_method=pass_all
;;

netbsd*)
if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so\.[[0-9]]+\.[[0-9]]+|_pic\,a)$'
else

```



```

    lt_cv_deplibs_check_method='match_pattern /lib[[^]]+(\.so|_pic\.a)$'
fi
;;

newos6*)
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (executable|dynamic lib)'
lt_cv_file_magic_cmd=/usr/bin/file
lt_cv_file_magic_test_file=/usr/lib/libnls.so
;;

nto-qnx*)
lt_cv_deplibs_check_method=unknown
;;

openbsd*)
if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
    lt_cv_deplibs_check_method='match_pattern /lib[[^]]+(\.so\.[[0-9]]+\.[[0-9]]+|\.so|_pic\.a)$'
else
    lt_cv_deplibs_check_method='match_pattern /lib[[^]]+(\.so\.[[0-9]]+\.[[0-9]]+|_pic\.a)$'
fi
;;

osf3* | osf4* | osf5*)
lt_cv_deplibs_check_method=pass_all
;;

rdos*)
lt_cv_deplibs_check_method=pass_all
;;

solaris*)
lt_cv_deplibs_check_method=pass_all
;;

sysv4 | sysv4.3*)
case $host_vendor in
motorola)
    lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (shared object|dynamic lib) M[[0-9]][[0-9]]* Version [[0-9]]'
    lt_cv_file_magic_test_file='echo /usr/lib/libc.so*'
    ;;
ncr)
    lt_cv_deplibs_check_method=pass_all
    ;;
sequent)
    lt_cv_file_magic_cmd='/bin/file'
    lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[LM]]SB (shared object|dynamic lib )'
    ;;

```

```

sni)
  lt_cv_file_magic_cmd='/bin/file'
  lt_cv_deplibs_check_method="file_magic ELF [[0-9]][[0-9]]*-bit [[LM]]SB dynamic lib"
  lt_cv_file_magic_test_file=/lib/libc.so
  ;;
siemens)
  lt_cv_deplibs_check_method=pass_all
  ;;
pc)
  lt_cv_deplibs_check_method=pass_all
  ;;
esac
;;

```

```

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
  lt_cv_deplibs_check_method=pass_all
  ;;
esac
)
file_magic_cmd=$lt_cv_file_magic_cmd
deplibs_check_method=$lt_cv_deplibs_check_method
test -z "$deplibs_check_method" && deplibs_check_method=unknown
)# AC_DEPLIBS_CHECK_METHOD

```

```

# AC_PROG_NM
# -----
# find the pathname to a BSD-compatible name lister
AC_DEFUN([AC_PROG_NM],
[AC_CACHE_CHECK([for BSD-compatible nm], lt_cv_path_NM,
[if test -n "$NM"; then
  # Let the user override the test.
  lt_cv_path_NM="$NM"
else
  lt_nm_to_check="{ac_tool_prefix}nm"
  if test -n "$ac_tool_prefix" && test "$build" = "$host"; then
    lt_nm_to_check="$lt_nm_to_check nm"
  fi
  for lt_tmp_nm in $lt_nm_to_check; do
    lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
    for ac_dir in $PATH /usr/ccs/bin/elf /usr/ccs/bin /usr/ucb /bin; do
      IFS="$lt_save_ifs"
      test -z "$ac_dir" && ac_dir=.
      tmp_nm="$ac_dir/$lt_tmp_nm"
      if test -f "$tmp_nm" || test -f "$tmp_nm$ac_exeext" ; then
        # Check to see if the nm accepts a BSD-compatible flag.
        # Adding the 'sed 1q' prevents false positives on HP-UX, which says:
        # nm: unknown option "B" ignored

```

```

# Tru64's nm complains that /dev/null is an invalid object file
case "$tmp_nm" -B /dev/null 2>&1 | sed '1q' in
*/dev/null* | *'Invalid file or object type'*)
    lt_cv_path_NM="$tmp_nm -B"
    break
;;
*)
case "$tmp_nm" -p /dev/null 2>&1 | sed '1q' in
*/dev/null*)
    lt_cv_path_NM="$tmp_nm -p"
    break
;;
*)
    lt_cv_path_NM=${lt_cv_path_NM="$tmp_nm"} # keep the first match, but
    continue # so that we can try to find one that supports BSD flags
;;
esac
;;
esac
fi
done
IFS="$lt_save_ifs"
done
test -z "$lt_cv_path_NM" && lt_cv_path_NM=nm
fi)
NM="$lt_cv_path_NM"
])# AC_PROG_NM

```

```

# AC_CHECK_LIBM
# -----
# check for math library
AC_DEFUN([AC_CHECK_LIBM],
[AC_REQUIRE([AC_CANONICAL_HOST])dnl
LIBM=
case $host in
*-*-beos* | *-*-cygwin* | *-*-pw32* | *-*-darwin*)
# These system don't have libm, or don't need it
;;
*-*-ncr-sysv4.3*)
AC_CHECK_LIB(mw, _mwvalidcheckl, LIBM="-lmw")
AC_CHECK_LIB(m, cos, LIBM="$LIBM -lm")
;;
*)
AC_CHECK_LIB(m, cos, LIBM="-lm")
;;
esac
])# AC_CHECK_LIBM

```

```

# AC_LIBLTDL_CONVENIENCE([DIRECTORY])
# -----
# sets LIBLTDL to the link flags for the libltdl convenience library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-convenience to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# it is assumed to be 'libltdl'. LIBLTDL will be prefixed with
# '${top_builddir}/' and LTDLINCL will be prefixed with '${top_srcdir}/'
# (note the single quotes!). If your package is not flat and you're not
# using automake, define top_builddir and top_srcdir appropriately in
# the Makefiles.
AC_DEFUN([AC_LIBLTDL_CONVENIENCE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
case $enable_ltdl_convenience in
no) AC_MSG_ERROR([this package needs a convenience libltdl]) ;;
"") enable_ltdl_convenience=yes
    ac_configure_args="$ac_configure_args --enable-ltdl-convenience" ;;
esac
LIBLTDL='${top_builddir}/'ifelse($#,1,[$1],[libltdl])/libltdlc.la
LTDLINCL='-I${top_srcdir}/'ifelse($#,1,[$1],[libltdl])
# For backwards non-gettext consistent compatibility...
INCLTDL="$LTDLINCL"
])# AC_LIBLTDL_CONVENIENCE

```

```

# AC_LIBLTDL_INSTALLABLE([DIRECTORY])
# -----
# sets LIBLTDL to the link flags for the libltdl installable library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-install to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# and an installed libltdl is not found, it is assumed to be 'libltdl'.
# LIBLTDL will be prefixed with '${top_builddir}/#' and LTDLINCL with
# '${top_srcdir}/' (note the single quotes!). If your package is not
# flat and you're not using automake, define top_builddir and top_srcdir
# appropriately in the Makefiles.
# In the future, this macro may have to be called after AC_PROG_LIBTOOL.
AC_DEFUN([AC_LIBLTDL_INSTALLABLE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_CHECK_LIB(ltdl, lt_dlinit,
[test x"$enable_ltdl_install" != xyes && enable_ltdl_install=no],
[if test x"$enable_ltdl_install" = xno; then
    AC_MSG_WARN([libltdl not installed, but installation disabled])
else
    enable_ltdl_install=yes
fi

```

```

)
if test x"$enable_ltdl_install" = x"yes"; then
  ac_configure_args="$ac_configure_args --enable-ltdl-install"
  LIBLTDL='${top_builddir}/'ifelse($#,1,[$1],[libltdl])/libltdl.la
  LTDLINCL='-I${top_srcdir}/'ifelse($#,1,[$1],[libltdl])
else
  ac_configure_args="$ac_configure_args --enable-ltdl-install=no"
  LIBLTDL="-ltdl"
  LTDLINCL=
fi
# For backwards non-gettext consistent compatibility...
INCLTDL="$LTDLINCL"
])# AC_LIBLTDL_INSTALLABLE

# AC_LIBTOOL_CXX
# -----
# enable support for C++ libraries
AC_DEFUN([AC_LIBTOOL_CXX],
[AC_REQUIRE([_LT_AC_LANG_CXX])
])# AC_LIBTOOL_CXX

# _LT_AC_LANG_CXX
# -----
AC_DEFUN([_LT_AC_LANG_CXX],
[AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([_LT_AC_PROG_CXXCPP])
_LT_AC_SHELL_INIT([tagname=${tagname+${tagname},}CXX])
])# _LT_AC_LANG_CXX

# _LT_AC_PROG_CXXCPP
# -----
AC_DEFUN([_LT_AC_PROG_CXXCPP],
[
AC_REQUIRE([AC_PROG_CXX])
if test -n "$CXX" && ( test "X$CXX" != "Xno" &&
  ( (test "X$CXX" = "Xg++" && 'g++ -v >/dev/null 2>&1' ) ||
    (test "X$CXX" != "Xg++"))) ; then
  AC_PROG_CXXCPP
fi
])# _LT_AC_PROG_CXXCPP

# AC_LIBTOOL_F77
# -----
# enable support for Fortran 77 libraries
AC_DEFUN([AC_LIBTOOL_F77],
[AC_REQUIRE([_LT_AC_LANG_F77])
])# AC_LIBTOOL_F77

```

```
)# AC_LIBTOOL_F77
```

```
# _LT_AC_LANG_F77
```

```
# -----
```

```
AC_DEFUN([_LT_AC_LANG_F77],  
[AC_REQUIRE([AC_PROG_F77])  
_LT_AC_SHELL_INIT([tagname=${tagname+${tagname},}F77])
```

```
])# _LT_AC_LANG_F77
```

```
# AC_LIBTOOL_GCJ
```

```
# -----
```

```
# enable support for GCJ libraries  
AC_DEFUN([AC_LIBTOOL_GCJ],  
[AC_REQUIRE([_LT_AC_LANG_GCJ])
```

```
])# AC_LIBTOOL_GCJ
```

```
# _LT_AC_LANG_GCJ
```

```
# -----
```

```
AC_DEFUN([_LT_AC_LANG_GCJ],  
[AC_PROVIDE_IFELSE([AC_PROG_GCJ],[  
[AC_PROVIDE_IFELSE([A][M_PROG_GCJ],[  
[AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],[  
[ifdef([AC_PROG_GCJ],[AC_REQUIRE([AC_PROG_GCJ])],  
[ifdef([A][M_PROG_GCJ],[AC_REQUIRE([A][M_PROG_GCJ]),  
[AC_REQUIRE([A][C_PROG_GCJ_OR_A][M_PROG_GCJ])])])])])])  
_LT_AC_SHELL_INIT([tagname=${tagname+${tagname},}GCJ])
```

```
])# _LT_AC_LANG_GCJ
```

```
# AC_LIBTOOL_RC
```

```
# -----
```

```
# enable support for Windows resource files  
AC_DEFUN([AC_LIBTOOL_RC],  
[AC_REQUIRE([LT_AC_PROG_RC])  
_LT_AC_SHELL_INIT([tagname=${tagname+${tagname},}RC])
```

```
])# AC_LIBTOOL_RC
```

```
# AC_LIBTOOL_LANG_C_CONFIG
```

```
# -----
```

```
# Ensure that the configuration vars for the C compiler are  
# suitably defined. Those variables are subsequently used by  
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.  
AC_DEFUN([AC_LIBTOOL_LANG_C_CONFIG], [_LT_AC_LANG_C_CONFIG])  
AC_DEFUN([_LT_AC_LANG_C_CONFIG],
```

```

[lt_save_CC="$CC"
AC_LANG_PUSH(C)

# Source file extension for C test sources.
ac_ext=c

# Object file extension for compiled C test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(){return(0);}'

_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
AC_LIBTOOL_SYS_LIB_STRIP
AC_LIBTOOL_DLOPEN_SELF

# Report which library types will actually be built
AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([$can_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
aix3*)
test "$enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
archive_cmds="$archive_cmds~\${RANLIB} \$lib"
postinstall_cmds='${RANLIB} \$lib'
fi

```

```

;;

aix[[4-9]]*)
if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
    test "$enable_shared" = yes && enable_static=no
fi
;;
esac
AC_MSG_RESULT([$enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([$enable_static])

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_C_CONFIG

# AC_LIBTOOL_LANG_CXX_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined.  Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_CXX_CONFIG], [_LT_AC_LANG_CXX_CONFIG])
AC_DEFUN([_LT_AC_LANG_CXX_CONFIG],
[AC_LANG_PUSH(C++)
AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([_LT_AC_PROG_CXXCPP])

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown

```



```

_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Dependencies to place before and after the object being linked:
_LT_AC_TAGVAR(predep_objects, $1)=
_LT_AC_TAGVAR(postdep_objects, $1)=
_LT_AC_TAGVAR(predeps, $1)=
_LT_AC_TAGVAR(postdeps, $1)=
_LT_AC_TAGVAR(compiler_lib_search_path, $1)=
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=

# Source file extension for C++ test sources.
ac_ext=cpp

# Object file extension for compiled C++ test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(int, char *[]) { return(0); }'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC=$CC
lt_save_LD=$LD
lt_save_GCC=$GCC
GCC=$GXX
lt_save_with_gnu_ld=$with_gnu_ld
lt_save_path_LD=$lt_cv_path_LD
if test -n "${lt_cv_prog_gnu_ldcxx+set}"; then
  lt_cv_prog_gnu_ld=$lt_cv_prog_gnu_ldcxx
else
  $as_unset lt_cv_prog_gnu_ld
fi
if test -n "${lt_cv_path_LDCXX+set}"; then
  lt_cv_path_LD=$lt_cv_path_LDCXX
else

```

```

$as_unset lt_cv_path_LD
fi
test -z "${LDCXX+set}" || LD=$LDCXX
CC=${CXX-"c++"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

# We don't want -fno-exception wen compiling C++ code, so set the
# no_builtin_flag separately
if test "$GXX" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=' -fno-builtin'
else
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=
fi

if test "$GXX" = yes; then
  # Set up default GNU C++ configuration

  AC_PROG_LD

  # Check if GNU C++ uses GNU ld as the underlying linker, since the
  # archiving commands below assume that GNU ld is being used.
  if test "$with_gnu_ld" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o
$lib'

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

    # If archive_cmds runs LD, not CC, wlarc should be empty
    # XXX I think wlarc can be eliminated in ltcf-cxx, but I need to
    # investigate it a little bit more. (MM)
    wlarc='${wl}'

    # ancient GNU ld didn't support --whole-archive et. al.
    if eval ""$CC -print-prog-name=ld' --help 2>&1" | \
grep 'no-whole-archive' > /dev/null; then
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-archive$convenience ""$wlarc"--no-
whole-archive'
    else
      _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
    fi
  else
    with_gnu_ld=no
  fi

```

```

wlarc=

# A generic and very simple default shared library creation
# command for GNU C++ for the case where it uses the native
# linker, instead of GNU ld. If possible, this setting should
# overridden to take advantage of the native linker features on
# the platform it is being used on.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -o $lib'
fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "\-L"'

else
GXX=no
with_gnu_ld=no
wlarc=
fi

# PORTME: fill in a description of your system's C++ link characteristics
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
case $host_os in
aix3*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
aix[[4-9]]*)
if test "$host_cpu" = ia64; then
# On IA64, the linker does run time linking by default, so we don't
# have to do anything special.
aix_use_runtimelinking=no
exp_sym_flag='-Bexport'
no_entry_flag=""
else
aix_use_runtimelinking=no

# Test if we are trying to use run time linking or normal
# AIX style linking. If -brtl is somewhere in LDFLAGS, we
# need to do runtime linking.
case $host_os in aix4.([[23]])|aix4.([[23]]).*|aix[[5-9]]*)
for ld_flag in $LDFLAGS; do
case $ld_flag in
*-brtl*)
aix_use_runtimelinking=yes

```

```

break
;;
esac
done
;;
esac

exp_sym_flag='-bexport'
no_entry_flag='-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mminimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

_LT_AC_TAGVAR(archive_cmds, $1)="
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$GXX" = yes; then
  case $host_os in aix4.[[012]]|aix4.[[012]].*)
    # We only want to do this on AIX 4.2 and lower, the check
    # below for broken collect2 doesn't work under 4.3+
    collect2name='${CC} -print-prog-name=collect2'
    if test -f "$collect2name" && \
      strings "$collect2name" | grep resolve_lib_name >/dev/null
    then
      # We have reworked collect2
      :
    else
      # We have old collect2
      _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
      # It fails to find uninstalled libraries when the uninstalled
      # path is not listed in the libpath. Setting hardcode_minus_L
      # to unsupported forces relinking
      _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
      _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
    fi
  ;;
esac

shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
shared_flag="$shared_flag "{wl}-G'
fi

```

```

else
  # not using gcc
  if test "$host_cpu" = ia64; then
# VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
# chokes on -Wl,-G. The following line is correct:
shared_flag='-G'
  else
if test "$aix_use_runtimelinking" = yes; then
  shared_flag='${wl}-G'
else
  shared_flag='${wl}-bM:SRE'
fi
  fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then
  # Warning - without using the other runtime loading flags (-brtl),
  # -berok will link without error, but may produce a broken library.
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
  # Determine the default libpath from the value encoded in an empty executable.
  _LT_AC_SYS_LIBPATH_AIX
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:"$aix_libpath"

  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC" -o $output_objdir/$soname $libobjs $deplibs
"\${wl}$no_entry_flag" $compiler_flags 'if test "x${allow_undefined_flag}" != "x"; then echo
"\${wl}${allow_undefined_flag}"; else ;; fi "'"\${wl}$exp_sym_flag:\$export_symbols $shared_flag"
  else
  if test "$host_cpu" = ia64; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $libdir:/usr/lib:/lib'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)="-z nodefs"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" -o $output_objdir/$soname $libobjs
$deplibs "\${wl}$no_entry_flag" $compiler_flags ${wl}${allow_undefined_flag}
"\${wl}$exp_sym_flag:\$export_symbols"
  else
# Determine the default libpath from the value encoded in an empty executable.
_LT_AC_SYS_LIBPATH_AIX
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:"$aix_libpath"
# Warning - without using the other run time loading flags,
# -berok will link without error, but may produce a broken library.
_LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-bernotok'
_LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-berok'
# Exported symbols can be pulled into shared objects from archives
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
# This is similar to how AIX traditionally builds its shared libraries.

```

```

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" -o $output_objdir/$soname $libobjs
$deplibs ${wl}-bnoentry $compiler_flags ${wl}-bE:$export_symbols${allow_undefined_flag}~$AR $AR_FLAGS
$output_objdir/$libname$release.a $output_objdir/$soname'
fi
fi
;;

beos*)
if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
  # support --undefined. This deserves some investigation. FIXME
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -nostart $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;

chorus*)
case $cc_basename in
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
;;

cygwin* | mingw* | pw32*)
# _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
# as there is no search path for DLLs.
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes

if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -o $output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-implib
-Xlinker $lib'
  # If the export-symbols file already is a .def file (1st line
  # is EXPORTS), use it as is; otherwise, prepend...
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='if test "x$SED 1q $export_symbols" = xEXPORTS; then
cp $export_symbols $output_objdir/$soname.def;
else
echo EXPORTS > $output_objdir/$soname.def;
cat $export_symbols >> $output_objdir/$soname.def;
fi~

```

```

$CC -shared -nostdlib $output_objdir/$soname.def $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags -o $output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
darwin* | rhapsody*)
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  _LT_AC_TAGVAR(hardcode_direct, $1)=no
  _LT_AC_TAGVAR(hardcode_automatic, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="
  _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
  _LT_AC_TAGVAR(allow_undefined_flag, $1)="$lt_dar_allow_undefined"
  if test "$GXX" = yes ; then
    output_verbose_link_cmd='echo'
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs \$deplibs
    \$compiler_flags -install_name \$rpath/$soname \$verstring $lt_dar_single_mod${lt_dsymutil}"
    _LT_AC_TAGVAR(module_cmds, $1)="$CC \$allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs
    \$compiler_flags${lt_dsymutil}"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's,^,_' < \$export_symbols >
    \$output_objdir/${libname}-symbols.expsym~\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs
    \$deplibs \$compiler_flags -install_name \$rpath/$soname \$verstring
    ${lt_dar_single_mod}${lt_dar_export_syms}${lt_dsymutil}"
    _LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e 's,^,_' < \$export_symbols >
    \$output_objdir/${libname}-symbols.expsym~\$CC \$allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs
    \$compiler_flags${lt_dar_export_syms}${lt_dsymutil}"
    if test "$lt_cv_apple_cc_single_mod" != "yes"; then
      _LT_AC_TAGVAR(archive_cmds, $1)="$CC -r -keep_private_externs -nostdlib -o ${lib}-master.o
      \$libobjs~\$CC -dynamiclib \$allow_undefined_flag -o \$lib ${lib}-master.o \$deplibs \$compiler_flags -
      install_name \$rpath/$soname \$verstring${lt_dsymutil}"
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's,^,_' < \$export_symbols >
      \$output_objdir/${libname}-symbols.expsym~\$CC -r -keep_private_externs -nostdlib -o ${lib}-master.o
      \$libobjs~\$CC -dynamiclib \$allow_undefined_flag -o \$lib ${lib}-master.o \$deplibs \$compiler_flags -
      install_name \$rpath/$soname \$verstring${lt_dar_export_syms}${lt_dsymutil}"
    fi
  else
    case $cc_basename in
      xlc*)
        output_verbose_link_cmd='echo'
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -qmkshrobj ${wl}-single_module $allow_undefined_flag -o
        $lib $libobjs $deplibs $compiler_flags ${wl}-install_name ${wl}'echo $rpath/$soname' $xlcverstring'
        _LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs
        $deplibs$compiler_flags'
        # Don't fix this by using the ld -exported_symbols_list flag, it doesn't exist in older darwin lds
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed -e 's,#.*,,' -e 's,^[ ]*,,' -e 's,^(.*)_,_&,' <
        $export_symbols > $output_objdir/${libname}-symbols.expsym~$CC -qmkshrobj ${wl}-single_module
        $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags ${wl}-install_name ${wl}$rpath/$soname

```

```

$xlcvstring~nmedit -s $output_objdir/${libname}-symbols.expsym ${lib}'
    _LT_AC_TAGVAR(module_expsym_cmds, $1)=sed -e "s,#.*," -e "s,^[ ]*,," -e "s,^\(..*\),_&," <
$export_symbols > $output_objdir/${libname}-symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle
$libobjs $deplibs$compiler_flags~nmedit -s $output_objdir/${libname}-symbols.expsym ${lib}'
    ;;
*)
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
esac
fi
;;

dgux*)
case $cc_basename in
ec++*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
ghcx*)
# Green Hills C++ Compiler
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
;;
freebsd[[12]]*)
# C++ shared libraries reported to be fairly broken before switch to ELF
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
freebsd-elf*)
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
;;
freebsd* | dragonfly*)
# FreeBSD 3 and later use GNU C++ and GNU ld with standard ELF
# conventions
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
;;
gnu*)
;;
hpux9*)
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes

```



```

_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
# but as the default
# location of the library.

case $cc_basename in
CC*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
aCC*)
_LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -b ${wl}+b ${wl}$install_libdir -o
$output_objdir/$soname $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~test
$output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='($CC -b $CFLAGS -v conftest.$objext 2>&1) | grep "[[-]]L"; list=""; for z
in $templist; do case $z in conftest.$objext) list="$list $z"; *.objext); *) list="$list $z"; esac; done; echo $list'
;;
*)
if test "$GXX" = yes; then
_LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -shared -nostdlib -fPIC ${wl}+b
${wl}$install_libdir -o $output_objdir/$soname $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags~test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
else
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
hpux10*|hpux11*)
if test $with_gnu_ld = no; then
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

case $host_cpu in
hppa*64*|ia64*) ;;
*)
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
;;
esac
fi

```

```

case $host_cpu in
hppa*64*|ia64*)
  _LT_AC_TAGVAR(hardcode_direct, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;
*)
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
    # but as the default
    # location of the library.
  ;;
esac

case $cc_basename in
CC*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
aCC*)
case $host_cpu in
hppa*64*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname -o $lib $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags'
  ;;
ia64*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname ${wl}+nodefaultpath -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
  ;;
*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
  ;;
esac
# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='($CC -b $CFLAGS -v conftest.$object 2>&1) | grep "\-L"; list=""; for z in
$templist; do case $z in conftest.$object) list="$list $z"; *.object); *) list="$list $z"; esac; done; echo $list'
  ;;
*)
if test "$GXX" = yes; then
  if test $with_gnu_ld = no; then
    case $host_cpu in

```

```

hppa*64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib -fPIC ${wl}+h ${wl}$soname -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
    ;;
ia64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib -fPIC ${wl}+h ${wl}$soname
${wl}+nodefaultpath -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
    ;;
*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib -fPIC ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
    ;;
esac
fi
else
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
interix[[3-9]])*)
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
    # Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
    # Instead, shared libraries are loaded at an image base (0x10000000 by
    # default) and relocated if they conflict, which is a slow very memory
    # consuming and fragmenting process. To avoid this, we pick a random,
    # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
    # time. Moving up from 0x10000000 also allows more sbrk(2) space.
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-
h,$soname ${wl}--image-base,'expr ${RANDOM-$$} % 4096 / 2 \* 262144 + 1342177280' -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed "s,^,_" $export_symbols
>$output_objdir/$soname.expsym~$CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-h,$soname
${wl}--retain-symbols-file,$output_objdir/$soname.expsym ${wl}--image-base,'expr ${RANDOM-$$} % 4096 / 2
\* 262144 + 1342177280' -o $lib'
    ;;
irix5* | irix6*)
    case $cc_basename in
        CC*)
            # SGI C++
            _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -all -multigot $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -
update_registry ${output_objdir}/so_locations -o $lib'

            # Archives containing C++ object files must be created using

```

```

# "CC -ar", where "CC" is the IRIX C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -ar -WR,-u -o $oldlib $oldobjs'
;;
*)
if test "$GXX" = yes; then
  if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring' ${wl}-update_registry ${wl}${output_objdir}/so_locations -o $lib'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring' -o $lib'
  fi
fi
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;;
esac
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
;;
linux* | k*bsd*-gnu)
  case $cc_basename in
    KCC*)
# Kuck and Associates, Inc. (KAI) C++ Compiler

# KCC will only create a shared library if the output file
# ends with ".so" (or ".sl" for HP-UX), so rename the library
# to its proper name (with version) after linking.
_LT_AC_TAGVAR(archive_cmds, $1)='tempxt='echo $shared_ext | $SED -e 's/\([[^()0-9A-Za-z{}}]\)\|/\\\\1/g\'';
templib='echo $lib | $SED -e "s/\${tempxt}\.*/.so/"; $CC $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags --soname $soname -o \${templib}; mv \${templib} $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='tempxt='echo $shared_ext | $SED -e 's/\([[^()0-9A-Za-
z{}}]\)\|/\\\\1/g\''; templib='echo $lib | $SED -e "s/\${tempxt}\.*/.so/"; $CC $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags --soname $soname -o \${templib} ${wl}-retain-symbols-file,$export_symbols; mv
\${templib} $lib'
# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='$CC $CFLAGS -v conftest.$objext -o libconftest$shared_ext 2>&1 | grep
"ld"; rm -f libconftest$shared_ext; list=""; for z in $templist; do case $z in conftest.$objext) list="$list $z";';

```

```

*.Sobjext);; *) list="$list $z";;esac; done; echo $list'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

# Archives containing C++ object files must be created using
# "CC -Bstatic", where "CC" is the KAI C++ compiler.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -Bstatic -o $oldlib $oldobjs'
;;
  icpc*)
# Intel C++
with_gnu_ld=yes
# version 8.0 and above of icpc choke on multiply defined symbols
# if we add $predep_objects and $postdep_objects, however 7.1 and
# earlier do not add the objects themselves.
case '$CC -V 2>&1' in
*"Version 7."*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags ${wl}-soname $wl$soname -o $lib'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o
$lib'
  ;;
*) # Version 8.0 or newer
  tmp_idyn=
  case $host_cpu in
    ia64*) tmp_idyn='-i_dynamic';;
  esac
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared "$tmp_idyn" $libobjs $deplibs $compiler_flags ${wl}-
soname $wl$soname -o $lib'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared "$tmp_idyn" $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
  ;;
esac
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive$convenience ${wl}--no-whole-archive'
;;
  pgCC* | pgcpp*)
  # Portland Group C++ compiler
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname ${wl}$soname -o $lib'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $pic_flag $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname ${wl}$soname ${wl}-retain-symbols-file ${wl}$export_symbols
-o $lib'

  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'

```

```

_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience\""; do test -n
\"$conv\" && new_convenience=\" $new_convenience,$conv\"; done; $echo \" $new_convenience\" \" ${wl}--no-
whole-archive'
;;
cxx*)
# Compaq C++
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags ${wl}-soname $wl$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags ${wl}-soname $wl$soname -o $lib ${wl}-retain-symbols-file $wl$export_symbols'

runpath_var=LD_RUN_PATH
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld"; templist='echo
$templist | $SED "s/^(^.*ld.*)\\( .*ld .*$)\\1/"; list=""; for z in $templist; do case $z in conftest.$objext) list="$list
$z";; *.objext);; *) list="$list $z";;esac; done; echo $list'
;;
*)
case '$CC -V 2>&1 | sed 5q' in
*Sun\ C*)
# Sun C++ 5.9
_LT_AC_TAGVAR(no_undefined_flag, $1)='-zdefs'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -G${allow_undefined_flag} -h$soname -o $lib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G${allow_undefined_flag} -h$soname -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-retain-symbols-file
${wl}$export_symbols'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'new_convenience=; for conv in
$convenience\""; do test -z \" $conv\" || new_convenience=\" $new_convenience,$conv\"; done; $echo
\" $new_convenience\" \" ${wl}--no-whole-archive'

# Not sure whether something based on
# $CC $CFLAGS -v conftest.$objext -o libconftest$shared_ext 2>&1
# would be better.
output_verbose_link_cmd='echo'

```

```

# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -xar -o $oldlib $oldobjs'
;;
esac
;;
esac
;;
lynxos*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
m88k*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
mvs*)
case $cc_basename in
  cxx*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
  *)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
netbsd*)
if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $linker_flags'
  wlarc=
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
fi
# Workaround some broken pre-1.5 toolchains
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep conftest.$objext | $SED -e
"s:-lgcc -lc -lgcc::"'
;;
openbsd2*)
# C++ shared libraries are fairly broken
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
openbsd*)

```

```

if test -f /usr/libexec/ld.so; then
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -o $lib'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
  if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $pic_flag $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-retain-symbols-file,$export_symbols -o $lib'
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-archive$convenience "$wlarc"--no-whole-
archive'
  fi
  output_verbose_link_cmd='echo'
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
osf3*)
  case $cc_basename in
    KCC*)
      # Kuck and Associates, Inc. (KAI) C++ Compiler

      # KCC will only create a shared library if the output file
      # ends with ".so" (or ".sl" for HP-UX), so rename the library
      # to its proper name (with version) after linking.
      _LT_AC_TAGVAR(archive_cmds, $1)=tempext='echo $shared_ext | $SED -e '"/s/([[^()0-9A-Za-z{}}])/\|/g"/';
      templib='echo $lib | $SED -e "s/^\${tempext}\.*/.so/"; $CC $predep_objects $libobjs $deplibs $postdep_objects
$postdep_objects $compiler_flags --soname $soname -o \${templib}; mv \${templib} $lib'

      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
      _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=

      # Archives containing C++ object files must be created using
      # "CC -Bstatic", where "CC" is the KAI C++ compiler.
      _LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -Bstatic -o $oldlib $oldobjs'

      ;;
    RCC*)
      # Rational C++ 2.4.1
      # FIXME: insert proper C++ library support
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
      ;;
    cxx*)
      _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}\*'
      _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag} $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname $soname 'test -n "$verstring" && echo ${wl}-set_version
$verstring' -update_registry ${output_objdir}/so_locations -o $lib'

```



```

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld" | grep -v "ld:";
templist='echo $templist | $SED "s/^(^.*ld.*)\(.*.ld.*$)\^1/"/; list=""; for z in $templist; do case $z in
conftest.$objext) list="$list $z"; *.objext); *) list="$list $z";;esac; done; echo $list'
;;
*)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-expect_unresolved ${wl}\*'
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib ${allow_undefined_flag} $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname ${wl}$soname 'test -n "$verstring" && echo
${wl}-set_version ${wl}$verstring' ${wl}-update_registry ${wl}${output_objdir}/so_locations -o $lib'

  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "\-L"'

else
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
osf4* | osf5*)
case $cc_basename in
  KCC*)
# Kuck and Associates, Inc. (KAI) C++ Compiler

# KCC will only create a shared library if the output file
# ends with ".so" (or ".sl" for HP-UX), so rename the library
# to its proper name (with version) after linking.
_LT_AC_TAGVAR(archive_cmds, $1)='tempext='echo $shared_ext | $SED -e 's/^\([[^()0-9A-Za-z{]]\)\^1/g\'';
templib='echo $lib | $SED -e "s/^\{tempext\}\.*/.so/"; $CC $predep_objects $libobjs $deplibs $postdep_objects

```

```

$compiler_flags --soname $soname -o \${w}lib; mv \${w}lib $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${w}-rpath,$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Archives containing C++ object files must be created using
# the KAI C++ compiler.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -o $oldlib $oldobjs'
;;
  RCC*)
# Rational C++ 2.4.1
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
  cxx*)
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-expect_unresolved \*'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag} $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -msym -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -
update_registry ${output_objdir}/so_locations -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='for i in `cat $export_symbols`; do printf "%s %s\n" -
exported_symbol "$i" >> $lib.exp; done~
echo "-hidden">> $lib.exp~
$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -msym -
soname $soname -Wl,-input -Wl,$lib.exp 'test -n "$verstring" && echo -set_version $verstring' -update_registry
${output_objdir}/so_locations -o $lib~
$rm $lib.exp'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld" | grep -v "ld:";
templist=`echo $templist | $SED "s/^(^.*Id.*)\(.*.Id.*$)\1/"`; list=""; for z in $templist; do case $z in
conftest.$objext) list="$list $z"; *.objext); *) list="$list $z";; esac; done; echo $list'
;;
  *)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='${w}-expect_unresolved ${w}\*'
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib ${allow_undefined_flag} $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags ${w}-msym ${w} $soname 'test -n "$verstring" &&
echo ${w}-set_version ${w}$verstring' ${w}-update_registry ${w}${output_objdir}/so_locations -o $lib'

```

```

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "\-L"'

else
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
psos*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
sunos4*)
case $cc_basename in
  CC*)
# Sun C++ 4.x
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
  lcc*)
# Lucid
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
  *)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
solaris*)
case $cc_basename in
  CC*)
# Sun C++ 4.2, 5.x and Centerline C++
_LT_AC_TAGVAR(archive_cmds_need_lc,$1)=yes
_LT_AC_TAGVAR(no_undefined_flag, $1)='-zdefs'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -G${allow_undefined_flag} -h$soname -o $lib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e
"s/^(.*)/1;/> $lib.exp~$echo "local: *; };" >> $lib.exp~

```

```

$CC -G${allow_undefined_flag} ${wl}-M ${wl}$lib.exp -h$soname -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags~$rm $lib.exp'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
case $host_os in
solaris2.[0-5] | solaris2.[0-5].*) ;;
*)
# The compiler driver will combine and reorder linker options,
# but understands '-z linker_flag'.
# Supported since Solaris 2.6 (maybe 2.5.1?)
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='-z allextract$convenience -z defaultextract'
;;
esac
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

output_verbose_link_cmd='echo'

# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -xar -o $oldlib $oldobjs'
;;
gcx*)
# Green Hills C++ Compiler
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags ${wl}-h $wl$soname -o $lib'

# The C++ compiler must be used to create the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC $LDFLAGS -archive -o $oldlib $oldobjs'
;;
*)
# GNU C++ compiler with Solaris linker
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-z ${wl}defs'
  if $CC --version | grep -v '^2.7' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $LDFLAGS $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-h $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e
"s/^(.*)/1;/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$CC -shared -nostdlib ${wl}-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags~$rm $lib.exp'

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep '\\-L\\'"

```

```

else
# g++ 2.7 appears to require '-G' NOT '-shared' on this
# platform.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -G -nostdlib $LDFLAGS $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-h $wl$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e
"s/^(.*)/1;/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$CC -G -nostdlib ${wl}-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags~$rm $lib.exp'

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="$CC -G $CFLAGS -v conftest.$objext 2>&1 | grep \"\`-L\`\""
fi

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $wl$libdir'
case $host_os in
solaris2.[0-5] | solaris2.[0-5].*) ;;
*)
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}-z ${wl}allextract$convenience ${wl}-z
${wl}defaultextract'
;;
esac
fi
;;
esac
;;
sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[01].[[10]]* | unixware7* | sco3.2v5.0.[024]*)
_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
runpath_var=LD_RUN_PATH

case $cc_basename in
CC*)
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o
$lib $libobjs $deplibs $compiler_flags'
;;
*)
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,$soname -
o $lib $libobjs $deplibs $compiler_flags'
;;
esac
;;
sysv5* | sco3.2v5* | sco5v6*)

```

```

# Note: We can NOT use -z defs as we might desire, because we do not
# link with -lc, and that would cause any symbols used from libc to
# always be unresolved, which means just about no library would
# ever link correctly. If we're not using GNU ld we use -z text
# though, which does catch some bad symbols but isn't as heavy-handed
# as -z defs.
# For security reasons, it is highly recommended that you always
# use absolute paths for naming shared libraries, and exclude the
# DT_RUNPATH tag from executables and libraries. But doing so
# requires that you compile everything twice, which is a pain.
# So that behaviour is only enabled if SCOABSPATH is set to a
# non-empty value in the environment. Most likely only useful for
# creating official distributions of packages.
# This is a hack until libtool officially supports absolute path
# names for shared libraries.
_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
_LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo ${wl}-R,$libdir"
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
runpath_var='LD_RUN_PATH'

case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib
$libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-Bexport:$export_symbols ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
    ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o
$lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
    ;;
esac
;;
tandem*)
  case $cc_basename in
    NCC*)
      # NonStop-UX NCC 3.20
      # FIXME: insert proper C++ library support
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
  *)

```

```

# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
;;
vxworks*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
AC_MSG_RESULT([$LT_AC_TAGVAR(ld_shlibs, $1)])
test "$LT_AC_TAGVAR(ld_shlibs, $1)" = no && can_build_shared=no

_LT_AC_TAGVAR(GCC, $1)="$GXX"
_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_POSTDEP_PREDEP($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC=$lt_save_CC
LDCXX=$LD
LD=$lt_save_LD
GCC=$lt_save_GCC
with_gnu_ldcxx=$with_gnu_ld
with_gnu_ld=$lt_save_with_gnu_ld
lt_cv_path_LDCXX=$lt_cv_path_LD
lt_cv_path_LD=$lt_save_path_LD
lt_cv_prog_gnu_ldcxx=$lt_cv_prog_gnu_ld
lt_cv_prog_gnu_ld=$lt_save_with_gnu_ld
])# AC_LIBTOOL_LANG_CXX_CONFIG

# AC_LIBTOOL_POSTDEP_PREDEP([TAGNAME])
# -----
# Figure out "hidden" library dependencies from verbose
# compiler output when linking a shared library.
# Parse the compiler output and extract the necessary

```

```

# objects, libraries and library flags.
AC_DEFUN([AC_LIBTOOL_POSTDEP_PREDEP],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
dnl we can't use the lt_simple_compile_test_code here,
dnl because it contains code intended for an executable,
dnl not a library.  It's possible we should let each
dnl tag define a new lt_????_link_test_code variable,
dnl but it's only used here...
ifelse([$1],[],[cat > conftest.$ac_ext <<EOF
int a;
void foo (void) { a = 0; }
EOF
],[$1],[CXX],[cat > conftest.$ac_ext <<EOF
class Foo
{
public:
  Foo (void) { a = 0; }
private:
  int a;
};
EOF
],[$1],[F77],[cat > conftest.$ac_ext <<EOF
  subroutine foo
  implicit none
  integer*4 a
  a=0
  return
  end
EOF
],[$1],[GCJ],[cat > conftest.$ac_ext <<EOF
public class foo {
private int a;
public void bar (void) {
  a = 0;
}
};
EOF
])
dnl Parse the compiler output and extract the necessary
dnl objects, libraries and library flags.
if AC_TRY_EVAL(ac_compile); then
  # Parse the compiler output and extract the necessary
  # objects, libraries and library flags.

  # Sentinel used to keep track of whether or not we are before
  # the conftest object file.
  pre_test_object_deps_done=no

```



```

# The '*' in the case matches for architectures that use 'case' in
# $output_verbose_cmd can trigger glob expansion during the loop
# eval without this substitution.
output_verbose_link_cmd='$echo "X$output_verbose_link_cmd" | $Xsed -e "$no_glob_subst"'

for p in `eval $output_verbose_link_cmd`; do
  case $p in

    -L* | -R* | -l*)
      # Some compilers place space between "-{L,R}" and the path.
      # Remove the space.
      if test $p = "-L" \
|| test $p = "-R"; then
        prev=$p
        continue
      else
        prev=
      fi

      if test "$pre_test_object_deps_done" = no; then
        case $p in
          -L* | -R*)
            # Internal compiler library paths should come after those
            # provided the user. The postdeps already come after the
            # user supplied libs so there is no need to process them.
            if test -z "$_LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
              _LT_AC_TAGVAR(compiler_lib_search_path, $1)="{prev}$p"
            else
              _LT_AC_TAGVAR(compiler_lib_search_path, $1)="{_LT_AC_TAGVAR(compiler_lib_search_path, $1)}
${prev}$p"
            fi
            ;;
          # The "-l" case would never come before the object being
          # linked, so don't bother handling this case.
          esac
        else
          if test -z "$_LT_AC_TAGVAR(postdeps, $1)"; then
            _LT_AC_TAGVAR(postdeps, $1)="{prev}$p"
          else
            _LT_AC_TAGVAR(postdeps, $1)="{_LT_AC_TAGVAR(postdeps, $1)} ${prev}$p"
          fi
        fi
        ;;

    *.$objext)
      # This assumes that the test object file only shows up
      # once in the compiler output.
      if test "$p" = "conftest.$objext"; then

```

```

pre_test_object_deps_done=yes
continue
fi

if test "$pre_test_object_deps_done" = no; then
if test -z "$_LT_AC_TAGVAR(predep_objects, $1)"; then
  _LT_AC_TAGVAR(predep_objects, $1)="$p"
else
  _LT_AC_TAGVAR(predep_objects, $1)="$_LT_AC_TAGVAR(predep_objects, $1) $p"
fi
else
  if test -z "$_LT_AC_TAGVAR(postdep_objects, $1)"; then
    _LT_AC_TAGVAR(postdep_objects, $1)="$p"
  else
    _LT_AC_TAGVAR(postdep_objects, $1)="$_LT_AC_TAGVAR(postdep_objects, $1) $p"
  fi
fi
fi
;;

*) ;; # Ignore the rest.

esac
done

# Clean up.
rm -f a.out a.exe
else
echo "libtool.m4: error: problem compiling $1 test program"
fi

$rm -f confest.$objext

_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=
if test -n "$_LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
  _LT_AC_TAGVAR(compiler_lib_search_dirs, $1)="echo " ${_LT_AC_TAGVAR(compiler_lib_search_path, $1)}" | ${SED} -e 's! -L! !g' -e 's!^!!'"
fi

# PORTME: override above test on systems where it is broken
ifelse([$1],[CXX],
[case $host_os in
interix[[3-9]]*)
# Interix 3.5 installs completely hosed .la files for C++, so rather than
# hack all around it, let's just trust "g++" to DTRT.
_LT_AC_TAGVAR(predep_objects,$1)=
_LT_AC_TAGVAR(postdep_objects,$1)=
_LT_AC_TAGVAR(postdeps,$1)=
;;

```

```

linux*)
case '$CC -V 2>&1 | sed 5q' in
*Sun\ C*)
# Sun C++ 5.9
#
# The more standards-conforming stlport4 library is
# incompatible with the Cstd library. Avoid specifying
# it if it's in CXXFLAGS. Ignore libCrun as
# -library=stlport4 depends on it.
case " $CXX $CXXFLAGS " in
*" -library=stlport4 "*)
solaris_use_stlport4=yes
;;
esac
if test "$solaris_use_stlport4" != yes; then
_LT_AC_TAGVAR(postdeps,$1)='-library=Cstd -library=Crun'
fi
;;
esac
;;

solaris*)
case $cc_basename in
CC*)
# The more standards-conforming stlport4 library is
# incompatible with the Cstd library. Avoid specifying
# it if it's in CXXFLAGS. Ignore libCrun as
# -library=stlport4 depends on it.
case " $CXX $CXXFLAGS " in
*" -library=stlport4 "*)
solaris_use_stlport4=yes
;;
esac

# Adding this requires a known-good setup of shared libraries for
# Sun compiler versions before 5.6, else PIC objects from an old
# archive will be linked into the output, leading to subtle bugs.
if test "$solaris_use_stlport4" != yes; then
_LT_AC_TAGVAR(postdeps,$1)='-library=Cstd -library=Crun'
fi
;;
esac
;;
esac
])
case " $_LT_AC_TAGVAR(postdeps, $1) " in
*" -lc "*) _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no ;;

```

```

esac
])# AC_LIBTOOL_POSTDEP_PREDEP

# AC_LIBTOOL_LANG_F77_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_F77_CONFIG], [_LT_AC_LANG_F77_CONFIG(F77)])
AC_DEFUN([_LT_AC_LANG_F77_CONFIG],
[AC_REQUIRE([AC_PROG_F77])
AC_LANG_PUSH(Fortran 77)

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Source file extension for f77 test sources.
ac_ext=f

# Object file extension for compiled f77 test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="\
subroutine t
return
end
"

# Code to be used in simple link tests
lt_simple_link_test_code="\

```

```

    program t
    end
"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${F77-"f77"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([$scan_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$scan_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
aix3*)
test "$enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
    archive_cmds="$archive_cmds~\${RANLIB} \${lib}"
    postinstall_cmds='${RANLIB} \${lib}'
fi
;;
aix[[4-9]]*)
if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
    test "$enable_shared" = yes && enable_static=no
fi
;;
esac
AC_MSG_RESULT([$enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([$enable_static])

_LT_AC_TAGVAR(GCC, $1)="$G77"

```

```

_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_F77_CONFIG

# AC_LIBTOOL_LANG_GCJ_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined.  Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_GCJ_CONFIG], [_LT_AC_LANG_GCJ_CONFIG(GCJ)])
AC_DEFUN([_LT_AC_LANG_GCJ_CONFIG],
[AC_LANG_SAVE

# Source file extension for Java test sources.
ac_ext=java

# Object file extension for compiled Java test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="class foo {}"

# Code to be used in simple link tests
lt_simple_link_test_code='public class confest { public static void main(String[][] argv) {};'

# Itmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${GCJ-"gcj"}

```

```

compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

# GCJ did not exist at the time GCC didn't implicitly link libc in.
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no

_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_GCJ_CONFIG

# AC_LIBTOOL_LANG_RC_CONFIG
# -----
# Ensure that the configuration vars for the Windows resource compiler are
# suitably defined.  Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_RC_CONFIG], [_LT_AC_LANG_RC_CONFIG(RC)])
AC_DEFUN([_LT_AC_LANG_RC_CONFIG],
[AC_LANG_SAVE

# Source file extension for RC test sources.
ac_ext=rc

# Object file extension for compiled RC test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code='sample MENU { MENUITEM "&Soup", 100, CHECKED }'

# Code to be used in simple link tests
lt_simple_link_test_code="$lt_simple_compile_test_code"

# Itmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

```

```

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${RC-"windres"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])
_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes

AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_RC_CONFIG

# AC_LIBTOOL_CONFIG([TAGNAME])
# -----
# If TAGNAME is not passed, then create an initial libtool script
# with a default configuration from the untagged config vars.  Otherwise
# add code to config.status for appending the configuration named by
# TAGNAME from the matching tagged config vars.
AC_DEFUN([AC_LIBTOOL_CONFIG],
[# The else clause should only fire when bootstrapping the
# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.
if test -f "$ltmain"; then
# See if we are running on zsh, and set the options which allow our commands through
# without removal of \ escapes.
if test -n "${ZSH_VERSION+set}"; then
  setopt NO_GLOB_SUBST
fi
# Now quote all the things that may contain metacharacters while being
# careful not to overquote the AC_SUBSTed values.  We take copies of the
# variables and quote the copies for generation of the libtool script.
for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC LTCFLAGS NM \
  SED SHELL STRIP \
  libname_spec library_names_spec soname_spec extract_expsyms_cmds \
  old_strip lib striplib file_magic_cmd finish_cmds finish_eval \
  deplibs_check_method reload_flag reload_cmds need_locks \
  lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \
  lt_cv_sys_global_symbol_to_c_name_address \
  sys_lib_search_path_spec sys_lib_dlsearch_path_spec \

```



```

old_postinstall_cmds old_postuninstall_cmds \
_LT_AC_TAGVAR(compiler, $1) \
_LT_AC_TAGVAR(CC, $1) \
_LT_AC_TAGVAR(LD, $1) \
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1) \
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1) \
_LT_AC_TAGVAR(lt_prog_compiler_static, $1) \
_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1) \
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1) \
_LT_AC_TAGVAR(thread_safe_flag_spec, $1) \
_LT_AC_TAGVAR(whole_archive_flag_spec, $1) \
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1) \
_LT_AC_TAGVAR(old_archive_cmds, $1) \
_LT_AC_TAGVAR(old_archive_from_new_cmds, $1) \
_LT_AC_TAGVAR(predep_objects, $1) \
_LT_AC_TAGVAR(postdep_objects, $1) \
_LT_AC_TAGVAR(predeps, $1) \
_LT_AC_TAGVAR(postdeps, $1) \
_LT_AC_TAGVAR(compiler_lib_search_path, $1) \
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1) \
_LT_AC_TAGVAR(archive_cmds, $1) \
_LT_AC_TAGVAR(archive_expsym_cmds, $1) \
_LT_AC_TAGVAR(postinstall_cmds, $1) \
_LT_AC_TAGVAR(postuninstall_cmds, $1) \
_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1) \
_LT_AC_TAGVAR(allow_undefined_flag, $1) \
_LT_AC_TAGVAR(no_undefined_flag, $1) \
_LT_AC_TAGVAR(export_symbols_cmds, $1) \
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) \
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1) \
_LT_AC_TAGVAR(hardcode_libdir_separator, $1) \
_LT_AC_TAGVAR(hardcode_automatic, $1) \
_LT_AC_TAGVAR(module_cmds, $1) \
_LT_AC_TAGVAR(module_expsym_cmds, $1) \
_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1) \
_LT_AC_TAGVAR(fix_srcfile_path, $1) \
_LT_AC_TAGVAR(exclude_expsyms, $1) \
_LT_AC_TAGVAR(include_expsyms, $1); do

```

```

case $var in
_LT_AC_TAGVAR(old_archive_cmds, $1) | \
_LT_AC_TAGVAR(old_archive_from_new_cmds, $1) | \
_LT_AC_TAGVAR(archive_cmds, $1) | \
_LT_AC_TAGVAR(archive_expsym_cmds, $1) | \
_LT_AC_TAGVAR(module_cmds, $1) | \
_LT_AC_TAGVAR(module_expsym_cmds, $1) | \
_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1) | \
_LT_AC_TAGVAR(export_symbols_cmds, $1) | \

```

```

extract_expsyms_cmds | reload_cmds | finish_cmds | \
postinstall_cmds | postuninstall_cmds | \
old_postinstall_cmds | old_postuninstall_cmds | \
sys_lib_search_path_spec | sys_lib_dlsearch_path_spec)
# Double-quote double-eval'd strings.
eval "It_$var=\\\"\\$echo \"X\\$var\" | \\$Xsed -e \\\"$double_quote_subst\" -e \\\"$sed_quote_subst\" -e
\\\"$delay_variable_subst\\\"\\\"\\\"
;;
*)
eval "It_$var=\\\"\\$echo \"X\\$var\" | \\$Xsed -e \\\"$sed_quote_subst\\\"\\\"\\\"
;;
esac
done

case $lt_echo in
*\"[$]0 --fallback-echo\")
lt_echo='$echo \"X$lt_echo\" | $Xsed -e 's/\\\\\\\\\\\\\\\\[$]0 --fallback-echo\"[$]/[$]0 --fallback-echo\"/'
;;
esac

ifelse([$1], [],
[cfgfile=\"${ofile}T\"
trap \"$rm \\\"$cfgfile\\\"; exit 1\" 1 2 15
$rm -f \"$cfgfile\"
AC_MSG_NOTICE([creating $ofile]),
[cfgfile=\"$ofile"])

cat <<__EOF__ >> \"$cfgfile\"
ifelse([$1], [],
[#! $SHELL

# '$echo \"$cfgfile\" | sed 's%^.*%%' - Provide generalized library-building support services.
# Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
# NOTE: Changes made to this file will be lost: look at ltmain.sh.
#
# Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008
# Free Software Foundation, Inc.
#
# This file is part of GNU Libtool:
# Originally by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
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# WITHOUT ANY WARRANTY; without even the implied warranty of

```

```

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# General Public License for more details.
#
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# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# A sed program that does not truncate output.
SED=${lt_SED}

# Sed that helps us avoid accidentally triggering echo(1) options like -n.
Xsed="$SED -e 1s/^X/"

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

# The names of the tagged configurations supported by this script.
available_tags=

# ### BEGIN LIBTOOL CONFIG],
[# ### BEGIN LIBTOOL TAG CONFIG: $tagname)

# Libtool was configured on host '(hostname || uname -n) 2>/dev/null | sed 1q':

# Shell to use when invoking shell scripts.
SHELL=${lt_SHELL}

# Whether or not to build shared libraries.
build_libtool_libs=${enable_shared}

# Whether or not to build static libraries.
build_old_libs=${enable_static}

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=${LT_AC_TAGVAR(archive_cmds_need_lc, $1)}

# Whether or not to disallow shared libs when runtime libs are static
allow_libtool_libs_with_static_runtimes=${LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)}

# Whether or not to optimize for fast installation.
fast_install=${enable_fast_install}

```

```
# The host system.
host_alias=$host_alias
host=$host
host_os=$host_os

# The build system.
build_alias=$build_alias
build=$build
build_os=$build_os

# An echo program that does not interpret backslashes.
echo=$lt_echo

# The archiver.
AR=$lt_AR
AR_FLAGS=$lt_AR_FLAGS

# A C compiler.
LTCC=$lt_LTCC

# LTCC compiler flags.
LTCFLAGS=$lt_LTCFLAGS

# A language-specific compiler.
CC=$lt[_]_LT_AC_TAGVAR(compiler, $1)

# Is the compiler the GNU C compiler?
with_gcc=$_LT_AC_TAGVAR(GCC, $1)

# An ERE matcher.
EGREP=$lt_EGREP

# The linker used to build libraries.
LD=$lt[_]_LT_AC_TAGVAR(LD, $1)

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

# Used on cygwin: DLL creation program.
```

```
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.
objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=$lt_[_]LT_AC_TAGVAR(lt_prog_compiler_wl, $1)

# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"

# Shared library suffix (normally ".so").
shrext_cmds='shrext_cmds'

# Executable file suffix (normally "").
exeext="$exeext"

# Additional compiler flags for building library objects.
pic_flag=$lt_[_]LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_sys_max_cmd_len

# Does compiler simultaneously support -c and -o options?
compiler_c_o=$lt_[_]LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)

# Must we lock files when doing compilation?
need_locks=$lt_need_locks

# Do we need the lib prefix for modules?
need_lib_prefix=$need_lib_prefix

# Do we need a version for libraries?
need_version=$need_version
```

```

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt[]_LT_AC_TAGVAR(lt_prog_compiler_static, $1)

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt[]_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec=$lt[]_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)

# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt[]_LT_AC_TAGVAR(whole_archive_flag_spec, $1)

# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt[]_LT_AC_TAGVAR(thread_safe_flag_spec, $1)

# Library versioning type.
version_type=$version_type

# Format of library name prefix.
libname_spec=$lt_libname_spec

# List of archive names.  First name is the real one, the rest are links.
# The last name is the one that the linker finds with -INAME.
library_names_spec=$lt_library_names_spec

# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec

# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt[]_LT_AC_TAGVAR(old_archive_cmds, $1)
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt[]_LT_AC_TAGVAR(old_archive_from_new_cmds, $1)

# Create a temporary old-style archive to link instead of a shared archive.

```

```
old_archive_from_expsyms_cmds=${lt_[]_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)
```

```
# Commands used to build and install a shared archive.
```

```
archive_cmds=${lt_[]_LT_AC_TAGVAR(archive_cmds, $1)
```

```
archive_expsym_cmds=${lt_[]_LT_AC_TAGVAR(archive_expsym_cmds, $1)
```

```
postinstall_cmds=${lt_postinstall_cmds}
```

```
postuninstall_cmds=${lt_postuninstall_cmds}
```

```
# Commands used to build a loadable module (assumed same as above if empty)
```

```
module_cmds=${lt_[]_LT_AC_TAGVAR(module_cmds, $1)
```

```
module_expsym_cmds=${lt_[]_LT_AC_TAGVAR(module_expsym_cmds, $1)
```

```
# Commands to strip libraries.
```

```
old_striplib=${lt_old_striplib}
```

```
striplib=${lt_striplib}
```

```
# Dependencies to place before the objects being linked to create a  
# shared library.
```

```
predep_objects=${lt_[]_LT_AC_TAGVAR(predep_objects, $1)
```

```
# Dependencies to place after the objects being linked to create a  
# shared library.
```

```
postdep_objects=${lt_[]_LT_AC_TAGVAR(postdep_objects, $1)
```

```
# Dependencies to place before the objects being linked to create a  
# shared library.
```

```
predeps=${lt_[]_LT_AC_TAGVAR(predeps, $1)
```

```
# Dependencies to place after the objects being linked to create a  
# shared library.
```

```
postdeps=${lt_[]_LT_AC_TAGVAR(postdeps, $1)
```

```
# The directories searched by this compiler when creating a shared  
# library
```

```
compiler_lib_search_dirs=${lt_[]_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)
```

```
# The library search path used internally by the compiler when linking  
# a shared library.
```

```
compiler_lib_search_path=${lt_[]_LT_AC_TAGVAR(compiler_lib_search_path, $1)
```

```
# Method to check whether dependent libraries are shared objects.
```

```
deplibs_check_method=${lt_deplibs_check_method}
```

```
# Command to use when deplibs_check_method == file_magic.
```

```
file_magic_cmd=${lt_file_magic_cmd}
```

```
# Flag that allows shared libraries with undefined symbols to be built.
```

```
allow_undefined_flag=${lt_[]_LT_AC_TAGVAR(allow_undefined_flag, $1)
```

```

# Flag that forces no undefined symbols.
no_undefined_flag=${lt_cv_sys_global_symbol_pipe}

# Commands used to finish a libtool library installation in a directory.
finish_cmds=${lt_finish_cmds}

# Same as above, but a single script fragment to be evaled but not shown.
finish_eval=${lt_finish_eval}

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=${lt_cv_sys_global_symbol_pipe}

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=${lt_cv_sys_global_symbol_to_cdecl}

# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=${lt_cv_sys_global_symbol_to_c_name_address}

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

# How to hardcode a shared library path into an executable.
hardcode_action=$LT_AC_TAGVAR(hardcode_action, $1)

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode \${libdir} into a binary during linking.
# This must work even if \${libdir} does not exist.
hardcode_libdir_flag_spec=${lt_cv_sys_global_symbol_pipe}

# If ld is used when linking, flag to hardcode \${libdir} into
# a binary during linking. This must work even if \${libdir} does
# not exist.
hardcode_libdir_flag_spec_ld=${lt_cv_sys_global_symbol_pipe}

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=${lt_cv_sys_global_symbol_pipe}

# Set to yes if using DIR/libNAME${shared_ext} during linking hardcodes DIR into the
# resulting binary.

```



```

hardcode_direct=$_LT_AC_TAGVAR(hardcode_direct, $1)

# Set to yes if using the -LDIR flag during linking hardcodes DIR into the
# resulting binary.
hardcode_minus_L=$_LT_AC_TAGVAR(hardcode_minus_L, $1)

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)

# Set to yes if building a shared library automatically hardcodes DIR into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$_LT_AC_TAGVAR(hardcode_automatic, $1)

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

# Whether libtool must link a program against all its dependency libraries.
link_all_deplibs=$_LT_AC_TAGVAR(link_all_deplibs, $1)

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=$lt_sys_lib_dlsearch_path_spec

# Fix the shell variable $srcfile for the compiler.
fix_srcfile_path=$lt_fix_srcfile_path

# Set to yes if exported symbols are required.
always_export_symbols=$_LT_AC_TAGVAR(always_export_symbols, $1)

# The commands to list exported symbols.
export_symbols_cmds=$lt_[]_LT_AC_TAGVAR(export_symbols_cmds, $1)

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=$lt_extract_expsyms_cmds

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=$lt_[]_LT_AC_TAGVAR(exclude_expsyms, $1)

# Symbols that must always be exported.
include_expsyms=$lt_[]_LT_AC_TAGVAR(include_expsyms, $1)

ifelse([$1],[],
[# ### END LIBTOOL CONFIG],
[# ### END LIBTOOL TAG CONFIG: $tagname])

```

\_\_EOF\_\_

```
ifelse([$1],[, [
case $host_os in
aix3*)
    cat <<\EOF >> "$cfgfile"

# AIX sometimes has problems with the GCC collect2 program. For some
# reason, if we set the COLLECT_NAMES environment variable, the problems
# vanish in a puff of smoke.
if test "X${COLLECT_NAMES+set}" != Xset; then
    COLLECT_NAMES=
    export COLLECT_NAMES
fi
EOF
;;
esac

# We use sed instead of cat because bash on DJGPP gets confused if
# if finds mixed CR/LF and LF-only lines. Since sed operates in
# text mode, it properly converts lines to CR/LF. This bash problem
# is reportedly fixed, but why not run on old versions too?
sed 'sq' "$ltmain" >> "$cfgfile" || (rm -f "$cfgfile"; exit 1)

mv -f "$cfgfile" "$ofile" || \
    (rm -f "$ofile" && cp "$cfgfile" "$ofile" && rm -f "$cfgfile")
chmod +x "$ofile"
])
else
# If there is no Makefile yet, we rely on a make rule to execute
# 'config.status --recheck' to rerun these tests and create the
# libtool script then.
ltmain_in='echo $ltmain | sed -e 's/\,sh$/\,in/'
if test -f "$ltmain_in"; then
    test -f Makefile && make "$ltmain"
fi
fi
])# AC_LIBTOOL_CONFIG

# AC_LIBTOOL_PROG_COMPILER_NO_RTTI([TAGNAME])
# -----
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_NO_RTTI],
[AC_REQUIRE([_LT_AC_SYS_COMPILER])dnl

_LT_AC_TAGVAR(lt_prog_compiler_no_built_in_flag, $1)=
```

```

if test "$GCC" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)='-fno-builtin'

  AC_LIBTOOL_COMPILER_OPTION([if $compiler supports -fno-rtti -fno-exceptions],
    lt_cv_prog_compiler_rtti_exceptions,
    [-fno-rtti -fno-exceptions], [],
    [_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag,
$1)="$_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1) -fno-rtti -fno-exceptions"])
fi
])# AC_LIBTOOL_PROG_COMPILER_NO_RTTI

# AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
# -----
AC_DEFUN([AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE],
[AC_REQUIRE([AC_CANONICAL_HOST])
AC_REQUIRE([LT_AC_PROG_SED])
AC_REQUIRE([AC_PROG_NM])
AC_REQUIRE([AC_OBJEXT])
# Check for command to grab the raw symbol name followed by C symbol from nm.
AC_MSG_CHECKING([command to parse $NM output from $compiler object])
AC_CACHE_VAL([lt_cv_sys_global_symbol_pipe],
[
# These are sane defaults that work on at least a few old systems.
# [They come from Ultrix. What could be older than Ultrix?!! ;)]

# Character class describing NM global symbol codes.
symcode='[[BCDEGRST]]'

# Regexp to match symbols that can be accessed directly from C.
sympat='\([[A-Za-z]][[A-Za-z0-9]]*\)'

# Transform an extracted symbol line into a proper C declaration
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^.* \([^*]\)$/extern int \1;/p'"

# Transform an extracted symbol line into symbol name and symbol address
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \([[^ ]]*\) $/ {\\"1\\", (lt_ptr) 0},/p' -e 's/^$symcode
\([[^ ]]*\) \([[^ ]]*\)$/ {\\"2\\", (lt_ptr) \&2},/p'"

# Define system-specific variables.
case $host_os in
aix*)
  symcode='[[BCDT]]'
  ;;
cygwin* | mingw* | pw32*)
  symcode='[[ABCDGISTW]]'
  ;;
hpux*) # Its linker distinguishes data from code symbols

```

```

if test "$host_cpu" = ia64; then
    symcode='[[ABCDEGRST]]'
fi
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^T .* \\.(\.)*$/extern int \1();/p' -e 's/^\$symcode* .* \\.(\.)*$/extern
char \1;/p'"
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^\: \([[^ ]]*\) \$/ {\\\"1\\\", (lt_ptr) 0},/p' -e
's/^\$symcode* \([[^ ]]*\) \([[^ ]]*\) \$/ {\\\"2\\\", (lt_ptr) \&\2},/p'"
;;
linux* | k*bsd*-gnu)
if test "$host_cpu" = ia64; then
    symcode='[[ABCDGIRSTW]]'
    lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^T .* \\.(\.)*$/extern int \1();/p' -e 's/^\$symcode* .* \\.(\.)*$/extern
char \1;/p'"
    lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^\: \([[^ ]]*\) \$/ {\\\"1\\\", (lt_ptr) 0},/p' -e
's/^\$symcode* \([[^ ]]*\) \([[^ ]]*\) \$/ {\\\"2\\\", (lt_ptr) \&\2},/p'"
fi
;;
irix* | nonstopux*)
    symcode='[[BCDEGRST]]'
    ;;
osf*)
    symcode='[[BCDEGQRST]]'
    ;;
solaris*)
    symcode='[[BDRT]]'
    ;;
sco3.2v5*)
    symcode='[[DT]]'
    ;;
sysv4.2uw2*)
    symcode='[[DT]]'
    ;;
sysv5* | sco5v6* | unixware* | OpenUNIX*)
    symcode='[[ABDT]]'
    ;;
sysv4)
    symcode='[[DFNSTU]]'
    ;;
esac

# Handle CRLF in mingw tool chain
opt_cr=
case $build_os in
mingw*)
    opt_cr='echo 'x\{0,1\}' | tr x '\015' # option cr in regexp
    ;;
esac

```

```

# If we're using GNU nm, then use its standard symbol codes.
case '$NM -V 2>&1' in
*GNU* | *with BFD*)
symcode='[[ABCDGIRSTW]]' ;;
esac

# Try without a prefix underscore, then with it.
for ac_symprfx in "" "_"; do

# Transform symcode, sympat, and symprfx into a raw symbol and a C symbol.
symxfrm="\1 $ac_symprfx\2 \2"

# Write the raw and C identifiers.
lt_cv_sys_global_symbol_pipe="sed -n -e 's/^\.*[[ ]]($symcode$symcode*)[[ ]][[
]]*$ac_symprfx$sympat$opt_cr$/${symxfrm}/p'"

# Check to see that the pipe works correctly.
pipe_works=no

rm -f conftest*
cat > conftest.$ac_ext <<EOF
#ifdef __cplusplus
extern "C" {
#endif
char nm_test_var;
void nm_test_func(){}
#ifdef __cplusplus
}
#endif
int main(){nm_test_var='a';nm_test_func();return(0);}
EOF

if AC_TRY_EVAL(ac_compile); then
# Now try to grab the symbols.
nlist=conftest.nm
if AC_TRY_EVAL(NM conftest.$ac_objext \1 $lt_cv_sys_global_symbol_pipe \> $nlist) && test -s "$nlist"; then
# Try sorting and uniquifying the output.
if sort "$nlist" | uniq > "$nlist"T; then
mv -f "$nlist"T "$nlist"
else
rm -f "$nlist"T
fi

# Make sure that we snagged all the symbols we need.
if grep ' nm_test_var$' "$nlist" >/dev/null; then
if grep ' nm_test_func$' "$nlist" >/dev/null; then
cat <<EOF > conftest.$ac_ext
#ifdef __cplusplus

```

```

extern "C" {
#endif

EOF
# Now generate the symbol file.
eval "$lt_cv_sys_global_symbol_to_cdecl" < "$nlist" | grep -v main >> conftest.$ac_ext

cat <<EOF >> conftest.$ac_ext
#if defined (__STDC__) && __STDC__
# define lt_ptr_t void *
#else
# define lt_ptr_t char *
# define const
#endif

/* The mapping between symbol names and symbols. */
const struct {
  const char *name;
  lt_ptr_t address;
}
lt_preloaded_symbols[[]] =
{
EOF
  $$SED "s/^\$symcode\$symcode* \\.*) \\.*)$/ {\"|2\", (lt_ptr_t) \&|2},/" < "$nlist" | grep -v main >>
conftest.$ac_ext
  cat <<EOF >> conftest.$ac_ext
  {0, (lt_ptr_t) 0}
};

#ifdef __cplusplus
}
#endif
EOF
# Now try linking the two files.
mv conftest.$ac_objext confstm.$ac_objext
lt_save_LIBS="$LIBS"
lt_save_CFLAGS="$CFLAGS"
LIBS="confstm.$ac_objext"
CFLAGS="$CFLAGS$LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)"
if AC_TRY_EVAL(ac_link) && test -s conftest${ac_exeext}; then
  pipe_works=yes
fi
LIBS="$lt_save_LIBS"
CFLAGS="$lt_save_CFLAGS"
else
  echo "cannot find nm_test_func in $nlist" >&AS_MESSAGE_LOG_FD
fi
else

```

```

echo "cannot find nm_test_var in $nlist" >&AS_MESSAGE_LOG_FD
fi
else
echo "cannot run $lt_cv_sys_global_symbol_pipe" >&AS_MESSAGE_LOG_FD
fi
else
echo "$progname: failed program was:" >&AS_MESSAGE_LOG_FD
cat conftest.$ac_ext >&5
fi
rm -rf conftest* confst*

```

```

# Do not use the global_symbol_pipe unless it works.
if test "$pipe_works" = yes; then
break
else
lt_cv_sys_global_symbol_pipe=
fi
done
)
if test -z "$lt_cv_sys_global_symbol_pipe"; then
lt_cv_sys_global_symbol_to_cdecl=
fi
if test -z "$lt_cv_sys_global_symbol_pipe$lt_cv_sys_global_symbol_to_cdecl"; then
AC_MSG_RESULT(failed)
else
AC_MSG_RESULT(ok)
fi
) # AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE

```

```

# AC_LIBTOOL_PROG_COMPILER_PIC([TAGNAME])
# -----
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_PIC],
[LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=

```

```

AC_MSG_CHECKING([for $compiler option to produce PIC])
ifelse([$1],[CXX],[
# C++ specific cases for pic, static, wl, etc.
if test "$GXX" = yes; then
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'

```

```

case $host_os in
aix*)
# All AIX code is PIC.
if test "$host_cpu" = ia64; then

```

```

# AIX 5 now supports IA64 processor
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
fi
;;
amigaos*)
# FIXME: we need at least 68020 code to build shared libraries, but
# adding the '-m68020' flag to GCC prevents building anything better,
# like '-m68040'.
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
;;
beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
# PIC is the default for these OSes.
;;
mingw* | cygwin* | os2* | pw32*)
# This hack is so that the source file can tell whether it is being
# built for inclusion in a dll (and should export symbols for example).
# Although the cygwin gcc ignores -fPIC, still need this for old-style
# (--disable-auto-import) libraries
m4_if([$1], [GCJ], [],
[_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])
;;
darwin* | rhapsody*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'
;;
*djgpp*)
# DJGPP does not support shared libraries at all
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
;;
interix[[3-9]]*)
# Interix 3.x gcc -fpic/-fPIC options generate broken code.
# Instead, we relocate shared libraries at runtime.
;;
sysv4*MP*)
if test -d /usr/nec; then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
fi
;;
hpux*)
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in
hppa*64*|ia64*)
;;
*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;

```



```

    esac
    ;;
*)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
    ;;
esac
else
    case $host_os in
        aix[[4-9]]*)
# All AIX code is PIC.
if test "$host_cpu" = ia64; then
    # AIX 5 now supports IA64 processor
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
else
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-bnso -bI:/lib/syscalls.exp'
fi
        ;;
        chorus*)
    case $cc_basename in
        cxch68*)
# Green Hills C++ Compiler
# _LT_AC_TAGVAR(lt_prog_compiler_static, $1)="--no_auto_instantiation -u __main -u __premain -u _abort -r
$COOL_DIR/lib/libOrb.a $MVME_DIR/lib/CC/libC.a $MVME_DIR/lib/classix/libcx.s.a"
            ;;
    esac
        ;;
        darwin*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
    case $cc_basename in
        xlc*)
            _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
            _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
            ;;
    esac
        ;;
        dgux*)
    case $cc_basename in
        ec++*)
            _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
            ;;
        ghcx*)
# Green Hills C++ Compiler
            _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
            ;;
    esac
        ;;
    esac
    ;;
esac

```

```

;;
freebsd* | dragonfly*)
# FreeBSD uses GNU C++
;;
hpux9* | hpux10* | hpux11*)
case $cc_basename in
CC*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
if test "$host_cpu" != ia64; then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
fi
;;
aCC*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
case $host_cpu in
hppa*64*|ia64*)
# +Z the default
;;
*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
;;
esac
;;
*)
;;
esac
;;
interix*)
# This is c89, which is MS Visual C++ (no shared libs)
# Anyone wants to do a port?
;;
irix5* | irix6* | nonstopux*)
case $cc_basename in
CC*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
# CC pic flag -KPIC is the default.
;;
*)
;;
esac
;;
linux* | k*bsd*-gnu)
case $cc_basename in
KCC*)
# KAI C++ Compiler

```

```

_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='--backend -Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
icpc* | ecpc*)
# Intel C++
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
;;
pgCC* | pgcpp*)
# Portland Group C++ compiler.
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fpic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;
cxx*)
# Compaq C++
# Make sure the PIC flag is empty. It appears that all Alpha
# Linux and Compaq Tru64 Unix objects are PIC.
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;
*)
case '$CC -V 2>&1 | sed 5q' in
*Sun\ C*)
# Sun C++ 5.9
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
;;
esac
;;
esac
;;
lynxos*)
;;
m88k*)
;;
mvs*)
case $cc_basename in
cxx*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-W c,exportall'
;;
*)
;;
esac
;;
netbsd*)

```

```

;;
    osf3* | osf4* | osf5*)
case $cc_basename in
KCC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='--backend -Wl,'
    ;;
RCC*)
    # Rational C++ 2.4.1
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
    ;;
cxx*)
    # Digital/Compaq C++
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    # Make sure the PIC flag is empty.  It appears that all Alpha
    # Linux and Compaq Tru64 Unix objects are PIC.
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
    ;;
*)
    ;;
esac
;;
psos*)
;;
solaris*)
case $cc_basename in
CC*)
    # Sun C++ 4.2, 5.x and Centerline C++
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
    ;;
gcx*)
    # Green Hills C++ Compiler
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
    ;;
*)
    ;;
esac
;;
sunos4*)
case $cc_basename in
CC*)
    # Sun C++ 4.x
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    ;;
lcc*)

```

```

# Lucid
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
;;
*)
;;
esac
;;
tandem*)
case $cc_basename in
NCC*)
# NonStop-UX NCC 3.20
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
;;
*)
;;
esac
;;
sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
case $cc_basename in
CC*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;
esac
;;
vxworks*)
;;
*)
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
;;
esac
fi
],
[
if test "$GCC" = yes; then
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'

case $host_os in
aix*)
# All AIX code is PIC.
if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
fi
;;

```

```

amigaos*)
# FIXME: we need at least 68020 code to build shared libraries, but
# adding the '-m68020' flag to GCC prevents building anything better,
# like '-m68040'.
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
;;

beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
# PIC is the default for these OSes.
;;

mingw* | cygwin* | pw32* | os2*)
# This hack is so that the source file can tell whether it is being
# built for inclusion in a dll (and should export symbols for example).
# Although the cygwin gcc ignores -fPIC, still need this for old-style
# (--disable-auto-import) libraries
m4_if([$1], [GCJ], [],
[_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])
;;

darwin* | rhapsody*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'
;;

interix[[3-9]]*)
# Interix 3.x gcc -fpic/-fPIC options generate broken code.
# Instead, we relocate shared libraries at runtime.
;;

msdosdjgpp*)
# Just because we use GCC doesn't mean we suddenly get shared libraries
# on systems that don't support them.
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
enable_shared=no
;;

sysv4*MP*)
if test -d /usr/nec; then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
fi
;;

hpux*)
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in

```

```

hppa*64*|ia64*)
# +Z the default
;;
*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
esac
;;

*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
esac
else
# PORTME Check for flag to pass linker flags through the system compiler.
case $host_os in
aix*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
else
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-bnso -bI:/lib/syscalls.exp'
fi
;;
darwin*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
case $cc_basename in
xlc*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
;;
esac
;;

mingw* | cygwin* | pw32* | os2*)
# This hack is so that the source file can tell whether it is being
# built for inclusion in a dll (and should export symbols for example).
m4_if([$1], [GCJ], [],
[_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])
;;

hpux9* | hpux10* | hpux11*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in

```

```

    hppa*64*|ia64*)
# +Z the default
;;
    *)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
;;
    esac
    # Is there a better lt_prog_compiler_static that works with the bundled CC?
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
    ;;

    irix5* | irix6* | nonstopux*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    # PIC (with -KPIC) is the default.
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
    ;;

    newsos6)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    ;;

    linux* | k*bsd*-gnu)
    case $cc_basename in
    icc* | ecc*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
    ;;
    pgcc* | pgf77* | pgf90* | pgf95*)
    # Portland Group compilers (*not* the Pentium gcc compiler,
    # which looks to be a dead project)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fpic'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    ;;
    ccc*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    # All Alpha code is PIC.
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
    ;;
    *)
    case '$CC -V 2>&1 | sed 5q' in
    *Sun\ C*)
    # Sun C 5.9
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'

```



```

;;
*Sun\F*)
# Sun Fortran 8.3 passes all unrecognized flags to the linker
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=''
;;
esac
;;
esac
;;

osf3* | osf4* | osf5*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
# All OSF/1 code is PIC.
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;

rdos*)
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;

solaris*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
case $cc_basename in
f77* | f90* | f95*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld ';;
*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,';;
esac
;;

sunos4*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

sysv4 | sysv4.2uw2* | sysv4.3*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

sysv4*MP*)
if test -d /usr/nec ;then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-Kconform_pic'

```

```

_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
fi
;;

sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

unicos*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
;;

uts4*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

*)
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
;;
esac
fi
])
AC_MSG_RESULT([$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)])

#
# Check to make sure the PIC flag actually works.
#
if test -n "$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)"; then
  AC_LIBTOOL_COMPILER_OPTION([if $compiler PIC flag $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
works],
  _LT_AC_TAGVAR(lt_cv_prog_compiler_pic_works, $1),
  [$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[],[ -DPIC],[ifelse([$1],[CXX],[ -DPIC],[ ])]), [],
  [case $LT_AC_TAGVAR(lt_prog_compiler_pic, $1) in
    "" | " "*) ;;
    *) _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=" $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)" ;;
  esac],
  [_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
  _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no])
fi
case $host_os in
# For platforms which do not support PIC, -DPIC is meaningless:
*djgpp*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
  ;;

```

```

*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[,-
DPIC],[ifelse([$1],[CXX],[ -DPIC],[ ]])]"
;;
esac

#
# Check to make sure the static flag actually works.
#
wl=$_LT_AC_TAGVAR(lt_prog_compiler_wl, $1) eval
lt_tmp_static_flag="\$_LT_AC_TAGVAR(lt_prog_compiler_static, $1)\\"
AC_LIBTOOL_LINKER_OPTION([if $compiler static flag $lt_tmp_static_flag works],
_LT_AC_TAGVAR(lt_cv_prog_compiler_static_works, $1),
$lt_tmp_static_flag,
[],
[_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=])
])

# AC_LIBTOOL_PROG_LD_SHLIBS([TAGNAME])
# -----
# See if the linker supports building shared libraries.
AC_DEFUN([AC_LIBTOOL_PROG_LD_SHLIBS],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
ifelse([$1],[CXX],[
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience | $global_symbol_pipe | $SED "/s/*
//\" | sort | uniq > $export_symbols'
case $host_os in
aix[[4-9]]*)
# If we're using GNU nm, then we don't want the "-C" option.
# -C means demangle to AIX nm, but means don't demangle with GNU nm
if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -Bpg $libobjs $convenience | awk "{ if ((([$]2 == \"T\")
|| ([[$]2 == \"D\") || ([[$]2 == \"B\")) && ([substr]([[$]3,1,1) != \".\") { print [[$]3 } }\" | sort -u > $export_symbols'
else
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -BCpg $libobjs $convenience | awk "{ if ((([$]2 ==
\"T\") || ([[$]2 == \"D\") || ([[$]2 == \"B\")) && ([substr]([[$]3,1,1) != \".\") { print [[$]3 } }\" | sort -u >
$export_symbols'
fi
;;
pw32*)
_LT_AC_TAGVAR(export_symbols_cmds, $1)="$ldll_cmds"
;;
cygwin* | mingw*)
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience | $global_symbol_pipe | $SED -e
\"/^[BCDGRS][ ]/s/.*[ ]([[:^]]*)\^1 DATA;/^.*[ ]__nm_/s/^\.*[ ]__nm_\([[:^]]*\)[ ]([[:^]]*)\^1
DATA;/^I[ ]/d;/^[[AITW]][ ]/s/.*[ ]//\" | sort | uniq > $export_symbols'

```

```

;;
*)
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience | $global_symbol_pipe | $SED
\s/.*/\| sort | uniq > $export_symbols'
;;
esac
_LT_AC_TAGVAR(exclude_expsyms, $1)=[_GLOBAL_OFFSET_TABLE_|_GLOBAL__F[ID]_.*]
],[
runpath_var=
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no
_LT_AC_TAGVAR(archive_cmds, $1)=
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(old_archive_From_new_cmds, $1)=
_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(thread_safe_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience | $global_symbol_pipe | $SED \s/.*/
/\| sort | uniq > $export_symbols'
# include_expsyms should be a list of space-separated symbols to be *always*
# included in the symbol list
_LT_AC_TAGVAR(include_expsyms, $1)=
# exclude_expsyms can be an extended regexp of symbols to exclude
# it will be wrapped by ' (' and '$)', so one must not match beginning or
# end of line. Example: 'a|bc|.*/d.*' will exclude the symbols 'a' and 'bc',
# as well as any symbol that contains 'd'.
_LT_AC_TAGVAR(exclude_expsyms, $1)=[_GLOBAL_OFFSET_TABLE_|_GLOBAL__F[ID]_.*]
# Although _GLOBAL_OFFSET_TABLE_ is a valid symbol C name, most a.out
# platforms (ab)use it in PIC code, but their linkers get confused if
# the symbol is explicitly referenced. Since portable code cannot
# rely on this symbol name, it's probably fine to never include it in
# preloaded symbol tables.
# Exclude shared library initialization/finalization symbols.
dnl Note also adjust exclude_expsyms for C++ above.
extract_expsyms_cmds=
# Just being paranoid about ensuring that cc_basename is set.

```

```

_LT_CC_BASENAME([$compiler])
case $host_os in
cygwin* | mingw* | pw32*)
  # FIXME: the MSVC++ port hasn't been tested in a loooong time
  # When not using gcc, we currently assume that we are using
  # Microsoft Visual C++.
  if test "$GCC" != yes; then
    with_gnu_ld=no
  fi
  ;;
interix*)
  # we just hope/assume this is gcc and not c89 (= MSVC++)
  with_gnu_ld=yes
  ;;
openbsd*)
  with_gnu_ld=no
  ;;
esac

_LT_AC_TAGVAR(ld_shlibs, $1)=yes
if test "$with_gnu_ld" = yes; then
  # If archive_cmds runs LD, not CC, wlarc should be empty
  wlarc='${wl}'

  # Set some defaults for GNU ld with shared library support. These
  # are reset later if shared libraries are not supported. Putting them
  # here allows them to be overridden if necessary.
  runpath_var=LD_RUN_PATH
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
  # ancient GNU ld didn't support --whole-archive et. al.
  if $LD --help 2>&1 | grep 'no-whole-archive' > /dev/null; then
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=" $wlarc"--whole-archive$convenience ""$wlarc"--no-whole-
archive'
  else
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
  fi
  supports_anon_versioning=no
  case '$LD -v 2>/dev/null' in
    *\ [[01]].* | *\ 2.[[0-9]].* | *\ 2.10.*) ;; # catch versions < 2.11
    *\ 2.11.93.0.2\ *) supports_anon_versioning=yes ;; # RH7.3 ...
    *\ 2.11.92.0.12\ *) supports_anon_versioning=yes ;; # Mandrake 8.2 ...
    *\ 2.11.*) ;; # other 2.11 versions
    *) supports_anon_versioning=yes ;;
  esac

  # See if GNU ld supports shared libraries.
  case $host_os in

```

```

aix[[3-9]]*)
# On AIX/PPC, the GNU linker is very broken
if test "$host_cpu" != ia64; then
_LT_AC_TAGVAR(ld_shlibs, $1)=no
cat <<EOF 1>&2

*** Warning: the GNU linker, at least up to release 2.9.1, is reported
*** to be unable to reliably create shared libraries on AIX.
*** Therefore, libtool is disabling shared libraries support. If you
*** really care for shared libraries, you may want to modify your PATH
*** so that a non-GNU linker is found, and then restart.

EOF
fi
;;

amigaos*)
_LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/a2ixlibrary.data~$echo "#define NAME $libname"
> $output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo
"#define VERSION $major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >>
$output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB $lib~(cd $output_objdir &&
a2ixlibrary -32)'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes

# Samuel A. Falvo II <kc5tja@dolphin.openprojects.net> reports
# that the semantics of dynamic libraries on AmigaOS, at least up
# to version 4, is to share data among multiple programs linked
# with the same dynamic library. Since this doesn't match the
# behavior of shared libraries on other platforms, we can't use
# them.
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;

beos*)
if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
# Joseph Beckenbach <jrb3@best.com> says some releases of gcc
# support --undefined. This deserves some investigation. FIXME
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -nostart $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;

cygwin* | mingw* | pw32*)
# _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,

```

```

# as there is no search path for DLLs.
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-L$libdir'
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
_LT_AC_TAGVAR(export_symbols_cmds, $1)='NM $libobjs $convenience | $global_symbol_pipe | $SED -e
\"/^[BCDGRS][ ]/s/.*[ ]([ ]*)^1 DATA/\" -e \"/^[AITW][ ]/s/.*[ ]/\" | sort | uniq > $export_symbols'

if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags -o
$output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
# If the export-symbols file already is a .def file (1st line
# is EXPORTS), use it as is; otherwise, prepend...
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='if test "x$SED 1q $export_symbols" = xEXPORTS; then
cp $export_symbols $output_objdir/$soname.def;
else
echo EXPORTS > $output_objdir/$soname.def;
cat $export_symbols >> $output_objdir/$soname.def;
fi~
$CC -shared $output_objdir/$soname.def $libobjs $deplibs $compiler_flags -o $output_objdir/$soname ${wl}--
enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;

interix[[3-9]]*)
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
# Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
# Instead, shared libraries are loaded at an image base (0x10000000 by
# default) and relocated if they conflict, which is a slow very memory
# consuming and fragmenting process. To avoid this, we pick a random,
# 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
# time. Moving up from 0x10000000 also allows more sbrk(2) space.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-
h,$soname ${wl}--image-base,'expr ${RANDOM-$$} % 4096 / 2 \* 262144 + 1342177280' -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed "s,^,_" $export_symbols
>$output_objdir/$soname.expsym~$CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-h,$soname
${wl}--retain-symbols-file,$output_objdir/$soname.expsym ${wl}--image-base,'expr ${RANDOM-$$} % 4096 / 2
\* 262144 + 1342177280' -o $lib'
;;

gnu* | linux* | k*bsd*-gnu)
if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
tmp_addflag=

```

```

case $cc_basename,$host_cpu in
pgcc*) # Portland Group C compiler
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience\""; do test -
n \"${conv}\" && new_convenience=\"${new_convenience,$conv}\"; done; $echo \"${new_convenience}\" \"${wl}--no-
whole-archive'
  tmp_addflag=' $pic_flag'
  ;;
pgf77* | pgf90* | pgf95*) # Portland Group f77 and f90 compilers
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience\""; do test -
n \"${conv}\" && new_convenience=\"${new_convenience,$conv}\"; done; $echo \"${new_convenience}\" \"${wl}--no-
whole-archive'
  tmp_addflag=' $pic_flag -Mnomain' ;;
ecc*,ia64* | icc*,ia64*) # Intel C compiler on ia64
  tmp_addflag=' -i_dynamic' ;;
efc*,ia64* | ifort*,ia64*) # Intel Fortran compiler on ia64
  tmp_addflag=' -i_dynamic -nofor_main' ;;
ifc* | ifort*) # Intel Fortran compiler
  tmp_addflag=' -nofor_main' ;;
esac
case '$CC -V 2>&1 | sed 5q' in
*Sun\ C*) # Sun C 5.9
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'new_convenience=; for conv in
$convenience\""; do test -z \"${conv}\" || new_convenience=\"${new_convenience,$conv}\"; done; $echo
\"${new_convenience}\" \"${wl}--no-whole-archive'
  tmp_sharedflag='-G' ;;
*Sun\ F*) # Sun Fortran 8.3
  tmp_sharedflag='-G' ;;
*)
  tmp_sharedflag='-shared' ;;
esac
_LT_AC_TAGVAR(archive_cmds, $1)='$CC "'$tmp_sharedflag"'$tmp_addflag"' $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'

if test $supports_anon_versioning = yes; then
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $output_objdir/$libname.ver~
cat $export_symbols | sed -e "s/^(.*)/1;/" >> $output_objdir/$libname.ver~
$echo "local: *; };" >> $output_objdir/$libname.ver~
$CC "'$tmp_sharedflag"'$tmp_addflag"' $libobjs $deplibs $compiler_flags ${wl}-soname $wl$soname ${wl}-
version-script ${wl}$output_objdir/$libname.ver -o $lib'
fi
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;

netbsd*)
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable $libobjs $deplibs $linker_flags -o $lib'

```



```

wlarc=
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
  fi
  ;;

solaris*)
  if $LD -v 2>&1 | grep 'BFD 2\.\8' > /dev/null; then
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  cat <<EOF 1>&2

*** Warning: The releases 2.8.* of the GNU linker cannot reliably
*** create shared libraries on Solaris systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.9.1 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

EOF
  elif $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
  ;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX*)
  case '$LD -v 2>&1' in
    *\ [[01]].* | *\ 2.([[0-9]].* | *\ 2.1([[0-5]].*)
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  cat <<_LT_EOF 1>&2

*** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
*** reliably create shared libraries on SCO systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.16.91.0.3 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

_LT_EOF
  ;;
*)

```

```

if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo ${wl}-rpath,$libdir"
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-
soname,\${SCOABSPATH:+\${install_libdir}/}$soname -o $lib'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-
soname,\${SCOABSPATH:+\${install_libdir}/}$soname,-retain-symbols-file,$export_symbols -o $lib'
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
;;
esac
;;

sunos4*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -assert pure-text -Bshareable -o $lib $libobjs $deplibs
$linker_flags'
  wlarc=
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

*)
  if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
;;
esac

if test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no; then
  runpath_var=
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
fi
else
# PORTME fill in a description of your system's linker (not GNU ld)
case $host_os in
aix3*)
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  _LT_AC_TAGVAR(always_export_symbols, $1)=yes
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$LD -o $output_objdir/$soname $libobjs $deplibs
$linker_flags -bE:$export_symbols -T512 -H512 -bM:SRE~$AR $AR_FLAGS $lib $output_objdir/$soname'
  # Note: this linker hardcodes the directories in LIBPATH if there

```

```

# are no directories specified by -L.
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
if test "$GCC" = yes && test -z "$lt_prog_compiler_static"; then
# Neither direct hardcoding nor static linking is supported with a
# broken collect2.
_LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
fi
;;

aix[[4-9]]*)
if test "$host_cpu" = ia64; then
# On IA64, the linker does run time linking by default, so we don't
# have to do anything special.
aix_use_runtimelinking=no
exp_sym_flag='-Bexport'
no_entry_flag=""
else
# If we're using GNU nm, then we don't want the "-C" option.
# -C means demangle to AIX nm, but means don't demangle with GNU nm
if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
_LT_AC_TAGVAR(export_symbols_cmds, $1)=$NM -Bpg $libobjs $convenience | awk '\{ if ((([$]2 == "T") ||
([\]2 == "D") || ([\]2 == "B")) && ([substr](\[[$]3,1,1) != ".")) { print \[$]3 } }\' | sort -u > $export_symbols'
else
_LT_AC_TAGVAR(export_symbols_cmds, $1)=$NM -BCpg $libobjs $convenience | awk '\{ if (((([\]2 == "T")
|| ([\]2 == "D") || ([\]2 == "B")) && ([substr](\[[$]3,1,1) != ".")) { print \[$]3 } }\' | sort -u > $export_symbols'
fi
aix_use_runtimelinking=no

# Test if we are trying to use run time linking or normal
# AIX style linking. If -brtl is somewhere in LDFLAGS, we
# need to do runtime linking.
case $host_os in aix4.[[23]]|aix4.[[23]].*|aix[[5-9]]*)
for ld_flag in $LDFLAGS; do
if (test $ld_flag = "-brtl" || test $ld_flag = "-Wl,-brtl"); then
aix_use_runtimelinking=yes
break
fi
done
;;
esac

exp_sym_flag='-bexport'
no_entry_flag='-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mminimal-toc to

```

```

# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

_LT_AC_TAGVAR(archive_cmds, $1)="
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$GCC" = yes; then
case $host_os in aix4.[[012]]|aix4.[[012]].*)
# We only want to do this on AIX 4.2 and lower, the check
# below for broken collect2 doesn't work under 4.3+
collect2name='${CC} -print-prog-name=collect2'
if test -f "$collect2name" && \
strings "$collect2name" | grep resolve_lib_name >/dev/null
then
# We have reworked collect2
:
else
# We have old collect2
_LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
# It fails to find uninstalled libraries when the uninstalled
# path is not listed in the libpath. Setting hardcode_minus_L
# to unsupported forces relinking
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
shared_flag="$shared_flag "${wl}-G'
fi
else
# not using gcc
if test "$host_cpu" = ia64; then
# VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
# chokes on -Wl,-G. The following line is correct:
shared_flag='-G'
else
if test "$aix_use_runtimelinking" = yes; then
shared_flag='${wl}-G'
else
shared_flag='${wl}-bM:SRE'
fi
fi
fi

```

```

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then
# Warning - without using the other runtime loading flags (-brtl),
# -berok will link without error, but may produce a broken library.
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
# Determine the default libpath from the value encoded in an empty executable.
_LT_AC_SYS_LIBPATH_AIX
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:"$aix_libpath"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC"' -o $output_objdir/$soname $libobjs $deplibs
"\${wl}$no_entry_flag" $compiler_flags 'if test "x${allow_undefined_flag}" != "x"; then echo
"\${wl}${allow_undefined_flag}"; else ;; fi' ""${wl}$exp_sym_flag:\$export_symbols $shared_flag"
else
if test "$host_cpu" = ia64; then
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $libdir:/usr/lib:/lib'
_LT_AC_TAGVAR(allow_undefined_flag, $1)="-z nodefs"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" -o $output_objdir/$soname $libobjs
$deplibs ""${wl}$no_entry_flag" $compiler_flags ${wl}${allow_undefined_flag}
""${wl}$exp_sym_flag:\$export_symbols"
else
# Determine the default libpath from the value encoded in an empty executable.
_LT_AC_SYS_LIBPATH_AIX
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:"$aix_libpath"
# Warning - without using the other run time loading flags,
# -berok will link without error, but may produce a broken library.
_LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-bernotok'
_LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-berok'
# Exported symbols can be pulled into shared objects from archives
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
# This is similar to how AIX traditionally builds its shared libraries.
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" -o $output_objdir/$soname $libobjs
$deplibs ${wl}-bnoentry $compiler_flags ${wl}-bE:$export_symbols${allow_undefined_flag}~$AR $AR_FLAGS
$output_objdir/$libname$release.a $output_objdir/$soname'
fi
fi
;;

amigaos*)
_LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/a2ixlibrary.data~$echo "#define NAME $libname"
> $output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo
"#define VERSION $major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >>
$output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB $lib~(cd $output_objdir &&
a2ixlibrary -32)'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes

```

```

# see comment about different semantics on the GNU ld section
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;

bsdi[[45]]*)
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=-rdynamic
;;

cygwin* | mingw* | pw32*)
# When not using gcc, we currently assume that we are using
# Microsoft Visual C++.
# hardcode_libdir_flag_spec is actually meaningless, as there is
# no search path for DLLs.
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=' '
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
# Tell ltmain to make .lib files, not .a files.
libext=lib
# Tell ltmain to make .dll files, not .so files.
shrext_cmds=".dll"
# FIXME: Setting linknames here is a bad hack.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -o $lib $libobjs $compiler_flags `echo "$deplibs" | $SED -e "\$/ -lc$/\\"" -link -dll~linknames='
# The linker will automatically build a .lib file if we build a DLL.
_LT_AC_TAGVAR(old_archive_From_new_cmds, $1)='true'
# FIXME: Should let the user specify the lib program.
_LT_AC_TAGVAR(old_archive_cmds, $1)='lib -OUT:$oldlib$oldobjs$old_deplibs'
_LT_AC_TAGVAR(fix_srcfile_path, $1)="cygpath -w \"$srcfile\""
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
;;

darwin* | rhapsody*)
_LT_AC_TAGVAR(allow_undefined_flag, $1)="$_lt_dar_allow_undefined"
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_automatic, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=""
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
if test "$GCC" = yes ; then
  output_verbose_link_cmd='echo'
  _LT_AC_TAGVAR(archive_cmds, $1)="\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs \$deplibs \$compiler_flags -install_name \$rpath/\$soname \$verstring $_lt_dar_single_mod$_lt_dsymutil}"
  _LT_AC_TAGVAR(module_cmds, $1)="\$CC \$allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs \$compiler_flags$_lt_dsymutil}"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's,^,_' < \$export_symbols >
\$output_objdir/\${libname}-symbols.expsym~\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs \$deplibs \$compiler_flags -install_name \$rpath/\$soname \$verstring
\$_lt_dar_single_mod\$_lt_dar_export_syms\$_lt_dsymutil}"

```

```

_LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e 's,^,_' < \${export_symbols} >
\${output_objdir}/${libname}-symbols.expsym~\${CC} \${allow_undefined_flag} -o \${lib} -bundle \${libobjs} \${deplibs}
\${compiler_flags}\${_lt_dar_export_syms}\${_lt_dsymutil}"
else
case $cc_basename in
xlc*)
output_verbose_link_cmd='echo'
_LT_AC_TAGVAR(archive_cmds, $1)='${CC} -qmkshrobj \${allow_undefined_flag} -o \${lib} \${libobjs} \${deplibs}
\${compiler_flags} \${wl}-install_name \${wl}'echo \${rpath}/\${soname}' \${xlcverstring}'
_LT_AC_TAGVAR(module_cmds, $1)='${CC} \${allow_undefined_flag} -o \${lib} -bundle \${libobjs}
\${deplibs}\${compiler_flags}'
# Don't fix this by using the ld -exported_symbols_list flag, it doesn't exist in older darwin lds
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed -e "s,#,*,," -e "s,^[ ]*,," -e "s,^(.*)_,_&," <
\${export_symbols} > \${output_objdir}/${libname}-symbols.expsym~${CC} -qmkshrobj \${allow_undefined_flag} -o \${lib}
\${libobjs} \${deplibs} \${compiler_flags} \${wl}-install_name \${wl}\${rpath}/\${soname} \${xlcverstring}~nmedit -s
\${output_objdir}/${libname}-symbols.expsym \${lib}'
_LT_AC_TAGVAR(module_expsym_cmds, $1)='sed -e "s,#,*,," -e "s,^[ ]*,," -e "s,^(.*)_,_&," <
\${export_symbols} > \${output_objdir}/${libname}-symbols.expsym~${CC} \${allow_undefined_flag} -o \${lib} -bundle
\${libobjs} \${deplibs}\${compiler_flags}~nmedit -s \${output_objdir}/${libname}-symbols.expsym \${lib}'
;;
*)
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
fi
;;

dgux*)
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h \${soname} -o \${lib} \${libobjs} \${deplibs} \${linker_flags}'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L\${libdir}'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

freebsd1*)
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++ constructor
# support. Future versions do this automatically, but an explicit c++rt0.o
# does not break anything, and helps significantly (at the cost of a little
# extra space).
freebsd2.2*)
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o \${lib} \${libobjs} \${deplibs} \${linker_flags}
/usr/lib/c++rt0.o'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R\${libdir}'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

```

```

# Unfortunately, older versions of FreeBSD 2 do not have this feature.
freebsd2*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

# FreeBSD 3 and greater uses gcc -shared to do shared libraries.
freebsd* | dragonfly*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -o $lib $libobjs $deplibs $compiler_flags'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

hpux9*)
  if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -shared -fPIC ${wl}+b
${wl}$install_libdir -o $output_objdir/$soname $libobjs $deplibs $compiler_flags~test $output_objdir/$soname =
$lib || mv $output_objdir/$soname $lib'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$LD -b +b $install_libdir -o
$output_objdir/$soname $libobjs $deplibs $linker_flags~test $output_objdir/$soname = $lib || mv
$output_objdir/$soname $lib'
  fi
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes

# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
  ;;

hpux10*)
  if test "$GCC" = yes -a "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir
-o $lib $libobjs $deplibs $compiler_flags'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -b +h $soname +b $install_libdir -o $lib $libobjs $deplibs
$linker_flags'
  fi
  if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
  fi

```



```

_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  fi
  ;;

  hpux11*)
    if test "$GCC" = yes -a "$with_gnu_ld" = no; then
case $host_cpu in
  hppa*64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}+h ${wl}$soname -o $lib $libobjs $deplibs
$compiler_flags'
    ;;
  ia64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}+h ${wl}$soname ${wl}+nodefaultpath -o $lib
$libobjs $deplibs $compiler_flags'
    ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
    ;;
  esac
    else
case $host_cpu in
  hppa*64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname -o $lib $libobjs $deplibs
$compiler_flags'
    ;;
  ia64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname ${wl}+nodefaultpath -o $lib $libobjs
$deplibs $compiler_flags'
    ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib
$libobjs $deplibs $compiler_flags'
    ;;
  esac
    fi
    if test "$with_gnu_ld" = no; then
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
      _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

case $host_cpu in
  hppa*64*|ia64*)

```

```

_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)='+b $libdir'
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;
*)
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
;;
esac
fi
;;

irix5* | irix6* | nonstopux*)
  if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
    ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version ${wl}$verstring' ${wl}-update_registry
    ${wl}${output_objdir}/so_locations -o $lib'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared $libobjs $deplibs $linker_flags -soname $soname 'test -n
    "$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)='-rpath $libdir'
  fi
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
  _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
  ;;

netbsd*)
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags' # a.out
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared -o $lib $libobjs $deplibs $linker_flags' # ELF
  fi
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

newsos6)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no

```

```

;;

openbsd*)
  if test -f /usr/libexec/ld.so; then
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
      _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags'
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags
      ${wl}-retain-symbols-file,$export_symbols'
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
      _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
    else
      case $host_os in
        openbsd[[01]].* | openbsd2.([[0-7]]) | openbsd2.([[0-7]].*)
          _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags'
          _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
          ;;
        *)
          _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags'
          _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
          ;;
      esac
    fi
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
;;

os2*)
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  _LT_AC_TAGVAR(archive_cmds, $1)='$echo "LIBRARY $libname INITINSTANCE" >
  $output_objdir/$libname.def~$echo "DESCRIPTION \"$libname\"" >> $output_objdir/$libname.def~$echo DATA
  >> $output_objdir/$libname.def~$echo " SINGLE NONSHARED" >> $output_objdir/$libname.def~$echo
  EXPORTS >> $output_objdir/$libname.def~emxexp $libobjs >> $output_objdir/$libname.def~$CC -Zdll -Zcrtdll -
  o $lib $libobjs $deplibs $compiler_flags $output_objdir/$libname.def'
  _LT_AC_TAGVAR(old_archive_From_new_cmds, $1)='emximp -o $output_objdir/$libname.a
  $output_objdir/$libname.def'
  ;;

osf3*)
  if test "$GCC" = yes; then
    _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-expect_unresolved ${wl}*'
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag} $libobjs $deplibs $compiler_flags
    ${wl}-soname ${wl}$soname `test -n "$verstring" && echo ${wl}-set_version ${wl}$verstring' ${wl}-
    update_registry ${wl}${output_objdir}/so_locations -o $lib'
  fi

```

```

else
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-expect_unresolved \*'
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared${allow_undefined_flag} $libobjs $deplibs $linker_flags -
soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry
${output_objdir}/so_locations -o $lib'
fi
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
;;

osf4* | osf5*) # as osf3* with the addition of -msym flag
if test "$GCC" = yes; then
_LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-expect_unresolved ${wl}\*'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag} $libobjs $deplibs $compiler_flags
${wl}-msym ${wl}-soname ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version ${wl}$verstring'
${wl}-update_registry ${wl}${output_objdir}/so_locations -o $lib'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
else
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-expect_unresolved \*'
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared${allow_undefined_flag} $libobjs $deplibs $linker_flags -
msym -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry
${output_objdir}/so_locations -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='for i in `cat $export_symbols`; do printf "%s %s\n" -
exported_symbol "$i" >> $lib.exp; done; echo "-hidden">> $lib.exp~
$LD -shared${allow_undefined_flag} -input $lib.exp $linker_flags $libobjs $deplibs -soname $soname 'test -n
"$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib~$rm $lib.exp'

# Both c and cxx compiler support -rpath directly
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
fi
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
;;

solaris*)
_LT_AC_TAGVAR(no_undefined_flag, $1)='-z text'
if test "$GCC" = yes; then
wlarc='${wl}'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h ${wl}$soname -o $lib $libobjs $deplibs
$compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e
"s/^(.*)/1;/> >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$CC -shared ${wl}-M ${wl}$lib.exp ${wl}-h ${wl}$soname -o $lib $libobjs $deplibs $compiler_flags~$rm
$lib.exp'
else
wlarc=""
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G${allow_undefined_flag} -h $soname -o $lib $libobjs $deplibs
$linker_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e

```

```

"s^(.*)\1;" >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$LD -G${allow_undefined_flag} -M $lib.exp -h $soname -o $lib $libobjs $deplibs $linker_flags~$rm $lib.exp'
fi
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
case $host_os in
solaris2.[0-5] | solaris2.[0-5].*) ;;
*)
# The compiler driver will combine and reorder linker options,
# but understands '-z linker_flag'. GCC discards it without '$wl',
# but is careful enough not to reorder.
# Supported since Solaris 2.6 (maybe 2.5.1?)
if test "$GCC" = yes; then
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}-z ${wl}allextract$convenience ${wl}-z
${wl}defaultextract'
else
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='-z allextract$convenience -z defaultextract'
fi
;;
esac
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;;

sunos4*)
  if test "x$host_vendor" = xsequent; then
# Use $CC to link under sequent, because it throws in some extra .o
# files that make .init and .fini sections work.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h $soname -o $lib $libobjs $deplibs $compiler_flags'
  else
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -assert pure-text -Bstatic -o $lib $libobjs $deplibs $linker_flags'
  fi
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

sysv4)
  case $host_vendor in
sni)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes # is this really true???
  ;;
siemens)
  ## LD is ld it makes a PLAMLIB
  ## CC just makes a GrossModule.
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(reload_cmds, $1)='$CC -r -o $output$reload_objs'

```

```

_LT_AC_TAGVAR(hardcode_direct, $1)=no
;;
motorola)
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
_LT_AC_TAGVAR(hardcode_direct, $1)=no #Motorola manual says yes, but my tests say they lie
;;
esac
runpath_var='LD_RUN_PATH'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

sysv4.3*)
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='-Bexport'
;;

sysv4*MP*)
  if test -d /usr/nec; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    runpath_var=LD_RUN_PATH
    hardcode_runpath_var=yes
    _LT_AC_TAGVAR(ld_shlibs, $1)=yes
  fi
  ;;

sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[[01]].[[10]]* | unixware7* | sco3.2v5.0.[[024]]*)
  _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  runpath_var='LD_RUN_PATH'

  if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
  fi
  ;;

sysv5* | sco3.2v5* | sco5v6*)
  # Note: We can NOT use -z defs as we might desire, because we do not
  # link with -lc, and that would cause any symbols used from libc to
  # always be unresolved, which means just about no library would

```

```

# ever link correctly. If we're not using GNU ld we use -z text
# though, which does catch some bad symbols but isn't as heavy-handed
# as -z defs.
_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
_LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo ${wl}-R,$libdir"
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
runpath_var='LD_RUN_PATH'

if test "$GCC" = yes; then
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
else
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-Bexport:$export_symbols ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
fi
;;

uts4*)
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

*)
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
fi
])
AC_MSG_RESULT([$LT_AC_TAGVAR(ld_shlibs, $1)])
test "$LT_AC_TAGVAR(ld_shlibs, $1)" = no && can_build_shared=no

#
# Do we need to explicitly link libc?
#
case "x$LT_AC_TAGVAR(archive_cmds_need_lc, $1)" in
x|xyes)
# Assume -lc should be added
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes

```

```

if test "$enable_shared" = yes && test "$GCC" = yes; then
case $_LT_AC_TAGVAR(archive_cmds, $1) in
*~*)
# FIXME: we may have to deal with multi-command sequences.
;;
*$CC *)
# Test whether the compiler implicitly links with -lc since on some
# systems, -lgcc has to come before -lc. If gcc already passes -lc
# to ld, don't add -lc before -lgcc.
AC_MSG_CHECKING([whether -lc should be explicitly linked in])
$rm conftest*
echo "$lt_simple_compile_test_code" > conftest.$ac_ext

if AC_TRY_EVAL(ac_compile) 2>conftest.err; then
soname=conftest
lib=conftest
libobjs=conftest.$ac_objext
deplibs=
wl=$_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)
pic_flag=$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
compiler_flags=-v
linker_flags=-v
verstring=
output_objdir=.
libname=conftest
lt_save_allow_undefined_flag=$_LT_AC_TAGVAR(allow_undefined_flag, $1)
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
if AC_TRY_EVAL(_LT_AC_TAGVAR(archive_cmds, $1) 2>|&1 | grep \"-lc \" \>/dev/null 2>|&1)
then
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
else
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
fi
_LT_AC_TAGVAR(allow_undefined_flag, $1)=$lt_save_allow_undefined_flag
else
cat conftest.err 1>&5
fi
$rm conftest*
AC_MSG_RESULT([$_LT_AC_TAGVAR(archive_cmds_need_lc, $1)])
;;
esac
fi
;;
esac
])# AC_LIBTOOL_PROG_LD_SHLIBS

```



```

# _LT_AC_FILE_LTDLL_C
# -----
# Be careful that the start marker always follows a newline.
AC_DEFUN([_LT_AC_FILE_LTDLL_C], [
# /* ltdll.c starts here */
# #define WIN32_LEAN_AND_MEAN
# #include <windows.h>
# #undef WIN32_LEAN_AND_MEAN
# #include <stdio.h>
#
# #ifndef __CYGWIN__
# # ifdef __CYGWIN32__
# #  define __CYGWIN__ __CYGWIN32__
# # endif
# #endif
#
# #ifdef __cplusplus
# extern "C" {
# #endif
# BOOL APIENTRY DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved);
# #ifdef __cplusplus
# }
# #endif
#
# #ifdef __CYGWIN__
# #include <cygwin/cygwin_dll.h>
# DECLARE_CYGWIN_DLL( DllMain );
# #endif
# HINSTANCE __hDllInstance_base;
#
# BOOL APIENTRY
# DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved)
# {
#   __hDllInstance_base = hInst;
#   return TRUE;
# }
# /* ltdll.c ends here */
])# _LT_AC_FILE_LTDLL_C

```

```

# _LT_AC_TAGVAR(VARNAME, [TAGNAME])
# -----
AC_DEFUN([_LT_AC_TAGVAR], [ifelse([$2], [], [$1], [$1_$2])])

```

```

# old names
AC_DEFUN([AM_PROG_LIBTOOL], [AC_PROG_LIBTOOL])
AC_DEFUN([AM_ENABLE_SHARED], [AC_ENABLE_SHARED($@)])

```

```

AC_DEFUN([AM_ENABLE_STATIC], [AC_ENABLE_STATIC($@)])
AC_DEFUN([AM_DISABLE_SHARED], [AC_DISABLE_SHARED($@)])
AC_DEFUN([AM_DISABLE_STATIC], [AC_DISABLE_STATIC($@)])
AC_DEFUN([AM_PROG_LD], [AC_PROG_LD])
AC_DEFUN([AM_PROG_NM], [AC_PROG_NM])

```

```

# This is just to silence aclocal about the macro not being used
ifelse([AC_DISABLE_FAST_INSTALL])

```

```

AC_DEFUN([LT_AC_PROG_GCJ],
[AC_CHECK_TOOL(GCJ, gcj, no)
test "x${GCJFLAGS+set}" = xset || GCJFLAGS="-g -O2"
AC_SUBST(GCJFLAGS)
])

```

```

AC_DEFUN([LT_AC_PROG_RC],
[AC_CHECK_TOOL(RC, windres, no)
])

```

```

# Cheap backport of AS_EXECUTABLE_P and required macros
# from Autoconf 2.59; we should not use $as_executable_p directly.

```

```

# _AS_TEST_PREPARE
# -----
m4_ifndef([_AS_TEST_PREPARE],
[m4_defun([_AS_TEST_PREPARE],
[if test -x / >/dev/null 2>&1; then
as_executable_p='test -x'
else
as_executable_p='test -f'
fi
])])# _AS_TEST_PREPARE

```

```

# AS_EXECUTABLE_P
# -----
# Check whether a file is executable.
m4_ifndef([AS_EXECUTABLE_P],
[m4_defun([AS_EXECUTABLE_P],
[AS_REQUIRE([_AS_TEST_PREPARE])dnl
$as_executable_p $1[]dnl
])])# AS_EXECUTABLE_P

```

```

# NOTE: This macro has been submitted for inclusion into #
# GNU Autoconf as AC_PROG_SED. When it is available in #
# a released version of Autoconf we should remove this #
# macro and use it instead. #
# LT_AC_PROG_SED

```

```

# -----
# Check for a fully-functional sed program, that truncates
# as few characters as possible. Prefer GNU sed if found.
AC_DEFUN([LT_AC_PROG_SED],
[AC_MSG_CHECKING([for a sed that does not truncate output])
AC_CACHE_VAL(lt_cv_path_SED,
[# Loop through the user's path and test for sed and gsed.
# Then use that list of sed's as ones to test for truncation.
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
IFS=$as_save_IFS
test -z "$as_dir" && as_dir=.
for lt_ac_prog in sed gsed; do
for ac_exec_ext in " $ac_executable_extensions; do
if AS_EXECUTABLE_P(["$as_dir/$lt_ac_prog$ac_exec_ext"]); then
lt_ac_sed_list="$lt_ac_sed_list $as_dir/$lt_ac_prog$ac_exec_ext"
fi
done
done
done
IFS=$as_save_IFS
lt_ac_max=0
lt_ac_count=0
# Add /usr/xpg4/bin/sed as it is typically found on Solaris
# along with /bin/sed that truncates output.
for lt_ac_sed in $lt_ac_sed_list /usr/xpg4/bin/sed; do
test ! -f $lt_ac_sed && continue
cat /dev/null > conftest.in
lt_ac_count=0
echo $ECHO_N "0123456789$ECHO_C" >conftest.in
# Check for GNU sed and select it if it is found.
if "$lt_ac_sed" --version 2>&1 < /dev/null | grep 'GNU' > /dev/null; then
lt_cv_path_SED=$lt_ac_sed
break
fi
while true; do
cat conftest.in conftest.in >conftest.tmp
mv conftest.tmp conftest.in
cp conftest.in conftest.nl
echo >>conftest.nl
$lt_ac_sed -e 's/a$//' < conftest.nl >conftest.out || break
cmp -s conftest.out conftest.nl || break
# 10000 chars as input seems more than enough
test $lt_ac_count -gt 10 && break
lt_ac_count='expr $lt_ac_count + 1'
if test $lt_ac_count -gt $lt_ac_max; then
lt_ac_max=$lt_ac_count

```

```

    lt_cv_path_SED=$lt_ac_sed
  fi
done
done
)
SED=$lt_cv_path_SED
AC_SUBST([SED])
AC_MSG_RESULT([$SED])
)

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#
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# with or without modifications, as long as this notice is preserved.

# AM_AUTOMAKE_VERSION(VERSION)
# -----
# Automake X.Y traces this macro to ensure aclocal.m4 has been
# generated from the m4 files accompanying Automake X.Y.
# (This private macro should not be called outside this file.)
AC_DEFUN([AM_AUTOMAKE_VERSION],
[am__api_version='1.10'
dnl Some users find AM_AUTOMAKE_VERSION and mistake it for a way to
dnl require some minimum version. Point them to the right macro.
m4_if([$1], [1.10.1], [],
  [AC_FATAL([Do not call $0, use AM_INIT_AUTOMAKE([$1]).])])dnl
])

# _AM_AUTOCONF_VERSION(VERSION)
# -----
# aclocal traces this macro to find the Autoconf version.
# This is a private macro too. Using m4_define simplifies
# the logic in aclocal, which can simply ignore this definition.
m4_define([_AM_AUTOCONF_VERSION], [])

# AM_SET_CURRENT_AUTOMAKE_VERSION
# -----
# Call AM_AUTOMAKE_VERSION and AM_INIT_AUTOMAKE so they can be traced.
# This function is AC_REQUIRED by AC_INIT_AUTOMAKE.
AC_DEFUN([AM_SET_CURRENT_AUTOMAKE_VERSION],
[AM_AUTOMAKE_VERSION([1.10.1])dnl
m4_ifndef([AC_AUTOCONF_VERSION],
  [m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION])])dnl
_AM_AUTOCONF_VERSION(AC_AUTOCONF_VERSION))

# AM_AUX_DIR_EXPAND                                         -*- Autoconf -*-

```

```

# Copyright (C) 2001, 2003, 2005 Free Software Foundation, Inc.
#
# This file is free software; the Free Software Foundation
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# with or without modifications, as long as this notice is preserved.

# For projects using AC_CONFIG_AUX_DIR([foo]), Autoconf sets
# $ac_aux_dir to '$srcdir/foo'. In other projects, it is set to
# '$srcdir', '$srcdir/..', or '$srcdir/../../'.
#
# Of course, Automake must honor this variable whenever it calls a
# tool from the auxiliary directory. The problem is that $srcdir (and
# therefore $ac_aux_dir as well) can be either absolute or relative,
# depending on how configure is run. This is pretty annoying, since
# it makes $ac_aux_dir quite unusable in subdirectories: in the top
# source directory, any form will work fine, but in subdirectories a
# relative path needs to be adjusted first.
#
# $ac_aux_dir/missing
# fails when called from a subdirectory if $ac_aux_dir is relative
# $top_srcdir/$ac_aux_dir/missing
# fails if $ac_aux_dir is absolute,
# fails when called from a subdirectory in a VPATH build with
# a relative $ac_aux_dir
#
# The reason of the latter failure is that $top_srcdir and $ac_aux_dir
# are both prefixed by $srcdir. In an in-source build this is usually
# harmless because $srcdir is '.', but things will broke when you
# start a VPATH build or use an absolute $srcdir.
#
# So we could use something similar to $top_srcdir/$ac_aux_dir/missing,
# iff we strip the leading $srcdir from $ac_aux_dir. That would be:
# am_aux_dir="\$(top_srcdir)"expr "$ac_aux_dir" : "$srcdir/*\(.*)"
# and then we would define $MISSING as
# MISSING="\${SHELL} $am_aux_dir/missing"
# This will work as long as $MISSING is not called from configure, because
# unfortunately $(top_srcdir) has no meaning in configure.
# However there are other variables, like CC, which are often used in
# configure, and could therefore not use this "fixed" $ac_aux_dir.
#
# Another solution, used here, is to always expand $ac_aux_dir to an
# absolute PATH. The drawback is that using absolute paths prevent a
# configured tree to be moved without reconfiguration.

AC_DEFUN([AM_AUX_DIR_EXPAND],
[dn] Rely on autoconf to set up CDPATH properly.
AC_PREREQ([2.50])dn]
# expand $ac_aux_dir to an absolute path

```

```

am_aux_dir='cd $ac_aux_dir && pwd'
)

# AM_CONDITIONAL                                -*- Autoconf -*-

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# serial 8

# AM_CONDITIONAL(NAME, SHELL-CONDITION)
# -----
# Define a conditional.
AC_DEFUN([AM_CONDITIONAL],
[AC_PREREQ(2.52)dnl
ifelse([$1], [TRUE], [AC_FATAL([$0: invalid condition: $1])],
[$1], [FALSE], [AC_FATAL([$0: invalid condition: $1])])dnl
AC_SUBST([$1_TRUE])dnl
AC_SUBST([$1_FALSE])dnl
_AM_SUBST_NOTMAKE([$1_TRUE])dnl
_AM_SUBST_NOTMAKE([$1_FALSE])dnl
if $2; then
  $1_TRUE=
  $1_FALSE='#'
else
  $1_TRUE='#'
  $1_FALSE=
fi
AC_CONFIG_COMMANDS_PRE(
[if test -z "${$1_TRUE}" && test -z "${$1_FALSE}"; then
  AC_MSG_ERROR([[conditional "$1" was never defined.
Usually this means the macro was only invoked conditionally.]])
fi]))

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# serial 9

# There are a few dirty hacks below to avoid letting 'AC_PROG_CC' be

```

```

# written in clear, in which case automake, when reading aclocal.m4,
# will think it sees a *use*, and therefore will trigger all it's
# C support machinery. Also note that it means that autoscan, seeing
# CC etc. in the Makefile, will ask for an AC_PROG_CC use...

# _AM_DEPENDENCIES(NAME)
# -----
# See how the compiler implements dependency checking.
# NAME is "CC", "CXX", "Gcj", or "OBJC".
# We try a few techniques and use that to set a single cache variable.
#
# We don't AC_REQUIRE the corresponding AC_PROG_CC since the latter was
# modified to invoke _AM_DEPENDENCIES(CC); we would have a circular
# dependency, and given that the user is not expected to run this macro,
# just rely on AC_PROG_CC.
AC_DEFUN([_AM_DEPENDENCIES],
[AC_REQUIRE([AM_SET_DEPDIR])dnl
AC_REQUIRE([AM_OUTPUT_DEPENDENCY_COMMANDS])dnl
AC_REQUIRE([AM_MAKE_INCLUDE])dnl
AC_REQUIRE([AM_DEP_TRACK])dnl

ifelse([$1], CC, [depcc="$CC" am_compiler_list=],
      [$1], CXX, [depcc="$CXX" am_compiler_list=],
      [$1], OBJC, [depcc="$OBJC" am_compiler_list='gcc3 gcc'],
      [$1], UPC, [depcc="$UPC" am_compiler_list=],
      [$1], GCJ, [depcc="$GCJ" am_compiler_list='gcc3 gcc'],
      [depcc="$1" am_compiler_list=])

AC_CACHE_CHECK([dependency style of $depcc],
               [am_cv_$1_dependencies_compiler_type],
[if test -z "$AMDEP_TRUE" && test -f "$am_depcomp"; then
# We make a subdir and do the tests there. Otherwise we can end up
# making bogus files that we don't know about and never remove. For
# instance it was reported that on HP-UX the gcc test will end up
# making a dummy file named 'D' -- because '-MD' means 'put the output
# in D'.
mkdir conftest.dir
# Copy depcomp to subdir because otherwise we won't find it if we're
# using a relative directory.
cp "$am_depcomp" conftest.dir
cd conftest.dir
# We will build objects and dependencies in a subdirectory because
# it helps to detect inapplicable dependency modes. For instance
# both Tru64's cc and ICC support -MD to output dependencies as a
# side effect of compilation, but ICC will put the dependencies in
# the current directory while Tru64 will put them in the object
# directory.

```

mkdir sub

```
am_cv_$1_dependencies_compiler_type=none
if test "$am_compiler_list" = ""; then
  am_compiler_list='sed -n [s/^#*([a-zA-Z0-9]*)$/\1/p]' < ./depcomp'
fi
for depmode in $am_compiler_list; do
  # Setup a source with many dependencies, because some compilers
  # like to wrap large dependency lists on column 80 (with \), and
  # we should not choose a depcomp mode which is confused by this.
  #
  # We need to recreate these files for each test, as the compiler may
  # overwrite some of them when testing with obscure command lines.
  # This happens at least with the AIX C compiler.
  : > sub/conftest.c
  for i in 1 2 3 4 5 6; do
    echo '#include "confstt'$i'.h"' >> sub/conftest.c
    # Using ': > sub/confstt$i.h' creates only sub/confstt1.h with
    # Solaris 8's {/usr,}/bin/sh.
    touch sub/confstt$i.h
  done
  echo "${am__include} ${am__quote}sub/conftest.Po${am__quote}" > confmf

  case $depmode in
  nosideeffect)
    # after this tag, mechanisms are not by side-effect, so they'll
    # only be used when explicitly requested
    if test "x$enable_dependency_tracking" = xyes; then
      continue
    else
      break
    fi
    ;;
  none) break ;;
  esac
  # We check with '-c' and '-o' for the sake of the "dashmstdout"
  # mode. It turns out that the SunPro C++ compiler does not properly
  # handle '-M -o', and we need to detect this.
  if depmode=$depmode \
    source=sub/conftest.c object=sub/conftest.${OBJEXT-o} \
    depfile=sub/conftest.Po tmpdepfile=sub/conftest.TPo \
    $$SHELL ./depcomp $depcc -c -o sub/conftest.${OBJEXT-o} sub/conftest.c \
    >/dev/null 2>conftest.err &&
    grep sub/confstt1.h sub/conftest.Po >/dev/null 2>&1 &&
    grep sub/confstt6.h sub/conftest.Po >/dev/null 2>&1 &&
    grep sub/conftest.${OBJEXT-o} sub/conftest.Po >/dev/null 2>&1 &&
    ${MAKE-make} -s -f confmf >/dev/null 2>&1; then
    # icc doesn't choke on unknown options, it will just issue warnings
```



```

# or remarks (even with -Werror). So we grep stderr for any message
# that says an option was ignored or not supported.
# When given -MP, icc 7.0 and 7.1 complain thusly:
# icc: Command line warning: ignoring option '-M'; no argument required
# The diagnosis changed in icc 8.0:
# icc: Command line remark: option '-MP' not supported
if (grep 'ignoring option' conftest.err ||
    grep 'not supported' conftest.err) >/dev/null 2>&1; then ;; else
    am_cv_$1_dependencies_compiler_type=$depmode
    break
fi
fi
done

cd ..
rm -rf conftest.dir
else
    am_cv_$1_dependencies_compiler_type=none
fi
)
AC_SUBST([$1DEPMODE], [depmode=$am_cv_$1_dependencies_compiler_type])
AM_CONDITIONAL([am__fastdep$1], [
    test "x$enable_dependency_tracking" != xno \
    && test "$am_cv_$1_dependencies_compiler_type" = gcc3])
)

# AM_SET_DEPDIR
# -----
# Choose a directory name for dependency files.
# This macro is AC_REQUIRED in _AM_DEPENDENCIES
AC_DEFUN([AM_SET_DEPDIR],
[AC_REQUIRE([AM_SET_LEADING_DOT])dnl
AC_SUBST([DEPDIR], ["${am__leading_dot}deps"])dnl
])

# AM_DEP_TRACK
# -----
AC_DEFUN([AM_DEP_TRACK],
[AC_ARG_ENABLE(dependency-tracking,
[ --disable-dependency-tracking speeds up one-time build
--enable-dependency-tracking do not reject slow dependency extractors])
if test "x$enable_dependency_tracking" != xno; then
    am_depcomp="$ac_aux_dir/depcomp"
    AMDEPBACKSLASH='\
fi
AM_CONDITIONAL([AMDEP], [test "x$enable_dependency_tracking" != xno])

```

```

AC_SUBST([AMDEPBACKSLASH])dnl
_AM_SUBST_NOTMAKE([AMDEPBACKSLASH])dnl
)

# Generate code to set up dependency tracking.          -*- Autoconf -*-

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#serial 3

# _AM_OUTPUT_DEPENDENCY_COMMANDS
# -----
AC_DEFUN([_AM_OUTPUT_DEPENDENCY_COMMANDS],
[for mf in $CONFIG_FILES; do
# Strip MF so we end up with the name of the file.
mf=`echo "$mf" | sed -e 's/:.*$//'`
# Check whether this is an Automake generated Makefile or not.
# We used to match only the files named 'Makefile.in', but
# some people rename them; so instead we look at the file content.
# Grep'ing the first line is not enough: some people post-process
# each Makefile.in and add a new line on top of each file to say so.
# Grep'ing the whole file is not good either: AIX grep has a line
# limit of 2048, but all sed's we know have understand at least 4000.
if sed -n 's,^#.*generated by automake.*,X,p' "$mf" | grep X >/dev/null 2>&1; then
  dirpart=`AS_DIRNAME("$mf")`
else
  continue
fi
# Extract the definition of DEPDIR, am__include, and am__quote
# from the Makefile without running 'make'.
DEPDIR=`sed -n 's/^DEPDIR = //p' < "$mf"`
test -z "$DEPDIR" && continue
am__include=`sed -n 's/^am__include = //p' < "$mf"`
test -z "am__include" && continue
am__quote=`sed -n 's/^am__quote = //p' < "$mf"`
# When using ansi2knr, U may be empty or an underscore; expand it
U=`sed -n 's/^U = //p' < "$mf"`
# Find all dependency output files, they are included files with
# $(DEPDIR) in their names. We invoke sed twice because it is the
# simplest approach to changing $(DEPDIR) to its actual value in the
# expansion.
for file in `sed -n "
s/^\$am__include \$am__quote\(.*(DEPDIR).*\)$am__quote"$/\1/p' < "$mf" | \

```

```

    sed -e 's/\$(DEPDIR)"/"$DEPDIR"/g' -e 's/\$U"/"$U"/g'; do
# Make sure the directory exists.
test -f "$dirpart/$file" && continue
fdir='AS_DIRNAME(["$file"])'
AS_MKDIR_P([$dirpart/$fdir])
# echo "creating $dirpart/$file"
echo '# dummy' > "$dirpart/$file"
done
done
])# _AM_OUTPUT_DEPENDENCY_COMMANDS

# AM_OUTPUT_DEPENDENCY_COMMANDS
# -----
# This macro should only be invoked once -- use via AC_REQUIRE.
#
# This code is only required when automatic dependency tracking
# is enabled.  FIXME.  This creates each '.P' file that we will
# need in order to bootstrap the dependency handling code.
AC_DEFUN([AM_OUTPUT_DEPENDENCY_COMMANDS],
[AC_CONFIG_COMMANDS([depfiles],
  [test x"$AMDEP_TRUE" != x"" || _AM_OUTPUT_DEPENDENCY_COMMANDS],
  [AMDEP_TRUE="$AMDEP_TRUE" ac_aux_dir="$ac_aux_dir"])
])

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# serial 8

# AM_CONFIG_HEADER is obsolete.  It has been replaced by AC_CONFIG_HEADERS.
AU_DEFUN([AM_CONFIG_HEADER], [AC_CONFIG_HEADERS($@)])

# Do all the work for Automake.          -*- Autoconf -*-

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# serial 13

```

```

# This macro actually does too much. Some checks are only needed if
# your package does certain things. But this isn't really a big deal.

# AM_INIT_AUTOMAKE(PACKAGE, VERSION, [NO-DEFINE])
# AM_INIT_AUTOMAKE([OPTIONS])
# -----
# The call with PACKAGE and VERSION arguments is the old style
# call (pre autoconf-2.50), which is being phased out. PACKAGE
# and VERSION should now be passed to AC_INIT and removed from
# the call to AM_INIT_AUTOMAKE.
# We support both call styles for the transition. After
# the next Automake release, Autoconf can make the AC_INIT
# arguments mandatory, and then we can depend on a new Autoconf
# release and drop the old call support.
AC_DEFUN([AM_INIT_AUTOMAKE],
[AC_PREREQ([2.60])dnl
dnl Autoconf wants to disallow AM_ names. We explicitly allow
dnl the ones we care about.
m4_pattern_allow([^AM_[A-Z]+FLAGS$])dnl
AC_REQUIRE([AM_SET_CURRENT_AUTOMAKE_VERSION])dnl
AC_REQUIRE([AC_PROG_INSTALL])dnl
if test "cd $srcdir && pwd" != "pwd"; then
# Use -I$(srcdir) only when $(srcdir) != ., so that make's output
# is not polluted with repeated "-I."
AC_SUBST([am__isrc], [' -I$(srcdir)'])_AM_SUBST_NOTMAKE([am__isrc])dnl
# test to see if srcdir already configured
if test -f $srcdir/config.status; then
AC_MSG_ERROR([source directory already configured; run "make distclean" there first])
fi
fi

# test whether we have cygpath
if test -z "$CYGPATH_W"; then
if (cygpath --version) >/dev/null 2>/dev/null; then
CYGPATH_W='cygpath -w'
else
CYGPATH_W=echo
fi
fi
AC_SUBST([CYGPATH_W])

# Define the identity of the package.
dnl Distinguish between old-style and new-style calls.
m4_ifval([$2],
[m4_ifval([$3], [_AM_SET_OPTION([no-define])])dnl
AC_SUBST([PACKAGE], [$1])dnl
AC_SUBST([VERSION], [$2]),
[_AM_SET_OPTIONS([$1])dnl

```

```

dnl Diagnose old-style AC_INIT with new-style AM_AUTOMAKE_INIT.
m4_if(m4_ifdef([AC_PACKAGE_NAME], 1)m4_ifdef([AC_PACKAGE_VERSION], 1), 11,,
[m4_fatal([AC_INIT should be called with package and version arguments]))dnl
AC_SUBST([PACKAGE], ['AC_PACKAGE_TARNAME'])dnl
AC_SUBST([VERSION], ['AC_PACKAGE_VERSION'])dnl

_AM_IF_OPTION([no-define],,
[AC_DEFINE_UNQUOTED(PACKAGE, "$PACKAGE", [Name of package])
AC_DEFINE_UNQUOTED(VERSION, "$VERSION", [Version number of package])]dnl

# Some tools Automake needs.
AC_REQUIRE([AM_SANITY_CHECK])dnl
AC_REQUIRE([AC_ARG_PROGRAM])dnl
AM_MISSING_PROG(ACLOCAL, aclocal-${am__api_version})
AM_MISSING_PROG(AUTOCONF, autoconf)
AM_MISSING_PROG(AUTOMAKE, automake-${am__api_version})
AM_MISSING_PROG(AUTOHEADER, autoheader)
AM_MISSING_PROG(MAKEINFO, makeinfo)
AM_PROG_INSTALL_SH
AM_PROG_INSTALL_STRIP
AC_REQUIRE([AM_PROG_MKDIR_P])dnl
# We need awk for the "check" target. The system "awk" is bad on
# some platforms.
AC_REQUIRE([AC_PROG_AWK])dnl
AC_REQUIRE([AC_PROG_MAKE_SET])dnl
AC_REQUIRE([AM_SET_LEADING_DOT])dnl
_AM_IF_OPTION([tar-ustar], [_AM_PROG_TAR([ustar])],
[_AM_IF_OPTION([tar-pax], [_AM_PROG_TAR([pax])],
[_AM_PROG_TAR([v7])])])
_AM_IF_OPTION([no-dependencies],,
[AC_PROVIDE_IFELSE([AC_PROG_CC],
[_AM_DEPENDENCIES(CC)],
[define([AC_PROG_CC],
defn([AC_PROG_CC])[_AM_DEPENDENCIES(CC)])])dnl
AC_PROVIDE_IFELSE([AC_PROG_CXX],
[_AM_DEPENDENCIES(CXX)],
[define([AC_PROG_CXX],
defn([AC_PROG_CXX])[_AM_DEPENDENCIES(CXX)])])dnl
AC_PROVIDE_IFELSE([AC_PROG_OBJC],
[_AM_DEPENDENCIES(OBJC)],
[define([AC_PROG_OBJC],
defn([AC_PROG_OBJC])[_AM_DEPENDENCIES(OBJC)])])dnl
])
])

# When config.status generates a header, we must update the stamp-h file.
# This file resides in the same directory as the config header

```

```

# that is generated. The stamp files are numbered to have different names.

# Autoconf calls _AC_AM_CONFIG_HEADER_HOOK (when defined) in the
# loop where config.status creates the headers, so we can generate
# our stamp files there.
AC_DEFUN([_AC_AM_CONFIG_HEADER_HOOK],
[# Compute $1's index in $config_headers.
_am_arg=$1
_am_stamp_count=1
for _am_header in $config_headers ;; do
case $_am_header in
$_am_arg | $_am_arg:* )
break ;;
* )
_am_stamp_count='expr $_am_stamp_count + 1' ;;
esac
done
echo "timestamp for $_am_arg" >'AS_DIRNAME(["$_am_arg"])/stamp-h[[$_am_stamp_count]]

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# AM_PROG_INSTALL_SH
# -----
# Define $install_sh.
AC_DEFUN([AM_PROG_INSTALL_SH],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
install_sh=${install_sh-"$(SHELL) $am_aux_dir/install-sh" }
AC_SUBST(install_sh)])

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# serial 2

# Check whether the underlying file-system supports filenames
# with a leading dot. For instance MS-DOS doesn't.
AC_DEFUN([AM_SET_LEADING_DOT],
[rm -rf .tst 2>/dev/null
mkdir .tst 2>/dev/null
if test -d .tst; then
am__leading_dot=.

```

```

else
  am__leading_dot=_
fi
rmdir .tst 2>/dev/null
AC_SUBST([am__leading_dot])

# Check to see how 'make' treats includes.      -*- Autoconf -*-

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# serial 3

# AM_MAKE_INCLUDE()
# -----
# Check to see how make treats includes.
AC_DEFUN([AM_MAKE_INCLUDE],
[am_make=${MAKE-make}
cat > confinc << 'END'
am__doit:
  @echo done
.PHONY: am__doit
END
# If we don't find an include directive, just comment out the code.
AC_MSG_CHECKING([for style of include used by $am_make])
am__include="#"
am__quote=
_am_result=none
# First try GNU make style include.
echo "include confinc" > confmf
# We grep out 'Entering directory' and 'Leaving directory'
# messages which can occur if 'w' ends up in MAKEFLAGS.
# In particular we don't look at '^make:' because GNU make might
# be invoked under some other name (usually "gmake"), in which
# case it prints its new name instead of 'make'.
if test "$am_make -s -f confmf 2> /dev/null | grep -v 'ing directory'" = "done"; then
  am__include=include
  am__quote=
  _am_result=GNU
fi
# Now try BSD make style include.
if test "$am__include" = "#"; then
  echo '.include "confinc"' > confmf
  if test "$am_make -s -f confmf 2> /dev/null" = "done"; then
    am__include=.include

```

```

    am__quote="\\"
    _am_result=BSD
fi
fi
AC_SUBST([am__include])
AC_SUBST([am__quote])
AC_MSG_RESULT([$_am_result])
rm -f confinc confmf
)

# Fake the existence of programs that GNU maintainers use.  -*- Autoconf -*-

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# serial 5

# AM_MISSING_PROG(NAME, PROGRAM)
# -----
AC_DEFUN([AM_MISSING_PROG],
[AC_REQUIRE([AM_MISSING_HAS_RUN])
$1=${$1-"${am_missing_run}$2"}
AC_SUBST($1)])

# AM_MISSING_HAS_RUN
# -----
# Define MISSING if not defined so far and test if it supports --run.
# If it does, set am_missing_run to use it, otherwise, to nothing.
AC_DEFUN([AM_MISSING_HAS_RUN],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
AC_REQUIRE_AUX_FILE([missing])dnl
test x"${MISSING+set}" = xset || MISSING="\${SHELL} $am_aux_dir/missing"
# Use eval to expand $SHELL
if eval "$MISSING --run true"; then
  am_missing_run="$MISSING --run "
else
  am_missing_run=
  AC_MSG_WARN(['missing' script is too old or missing])
fi
])

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#

```



```

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# AM_PROG_MKDIR_P
# -----
# Check for 'mkdir -p'.
AC_DEFUN([AM_PROG_MKDIR_P],
[AC_PREREQ([2.60])dnl
AC_REQUIRE([AC_PROG_MKDIR_P])dnl
dnl Automake 1.8 to 1.9.6 used to define mkdir_p. We now use MKDIR_P,
dnl while keeping a definition of mkdir_p for backward compatibility.
dnl @MKDIR_P@ is magic: AC_OUTPUT adjusts its value for each Makefile.
dnl However we cannot define mkdir_p as $(MKDIR_P) for the sake of
dnl Makefile.ins that do not define MKDIR_P, so we do our own
dnl adjustment using top_builddir (which is defined more often than
dnl MKDIR_P).
AC_SUBST([mkdir_p], ["$MKDIR_P"])dnl
case $mkdir_p in
  [[\V$]]* | ?:[[V]]*) ;;
  /*) mkdir_p="\$(top_builddir)/$mkdir_p" ;;
esac
])

# Helper functions for option handling.          -*- Autoconf -*-

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# serial 3

# _AM_MANGLE_OPTION(NAME)
# -----
AC_DEFUN([_AM_MANGLE_OPTION],
[[_AM_OPTION_]m4_bpatsubst($1, [[^a-zA-Z0-9_]], [_])])

# _AM_SET_OPTION(NAME)
# -----
# Set option NAME. Presently that only means defining a flag for this option.
AC_DEFUN([_AM_SET_OPTION],
[m4_define(_AM_MANGLE_OPTION([$1]), 1)])

# _AM_SET_OPTIONS(OPTIONS)
# -----
# OPTIONS is a space-separated list of Automake options.

```

```

AC_DEFUN([_AM_SET_OPTIONS],
[AC_FOREACH([_AM_Option], [$1], [_AM_SET_OPTION(_AM_Option)])])

# _AM_IF_OPTION(OPTION, IF-SET, [IF-NOT-SET])
# -----
# Execute IF-SET if OPTION is set, IF-NOT-SET otherwise.
AC_DEFUN([_AM_IF_OPTION],
[m4_ifset(_AM_MANGLE_OPTION([$1]), [$2], [$3])])

# Check to make sure that the build environment is sane.  -*- Autoconf -*-

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# serial 4

# AM_SANITY_CHECK
# -----
AC_DEFUN([AM_SANITY_CHECK],
[AC_MSG_CHECKING([whether build environment is sane])
# Just in case
sleep 1
echo timestamp > conftest.file
# Do 'set' in a subshell so we don't clobber the current shell's
# arguments.  Must try -L first in case configure is actually a
# symlink; some systems play weird games with the mod time of symlinks
# (eg FreeBSD returns the mod time of the symlink's containing
# directory).
if (
set X `ls -Lt $srcdir/configure conftest.file 2> /dev/null`
if test "$[*]" = "X"; then
# -L didn't work.
set X `ls -t $srcdir/configure conftest.file`
fi
rm -f conftest.file
if test "$[*]" != "X $srcdir/configure conftest.file" \
&& test "$[*]" != "X conftest.file $srcdir/configure"; then

# If neither matched, then we have a broken ls.  This can happen
# if, for instance, CONFIG_SHELL is bash and it inherits a
# broken ls alias from the environment.  This has actually
# happened.  Such a system could not be considered "sane".
AC_MSG_ERROR([ls -t appears to fail. Make sure there is not a broken
alias in your environment])

```

```

fi

test "${2}" = conftest.file
)
then
# Ok.
:
else
AC_MSG_ERROR([newly created file is older than distributed files!
Check your system clock])
fi
AC_MSG_RESULT(yes))

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# AM_PROG_INSTALL_STRIP
# -----
# One issue with vendor 'install' (even GNU) is that you can't
# specify the program used to strip binaries. This is especially
# annoying in cross-compiling environments, where the build's strip
# is unlikely to handle the host's binaries.
# Fortunately install-sh will honor a STRIPPROG variable, so we
# always use install-sh in 'make install-strip', and initialize
# STRIPPROG with the value of the STRIP variable (set by the user).
AC_DEFUN([AM_PROG_INSTALL_STRIP],
[AC_REQUIRE([AM_PROG_INSTALL_SH])dnl
# Installed binaries are usually stripped using 'strip' when the user
# run 'make install-strip'. However 'strip' might not be the right
# tool to use in cross-compilation environments, therefore Automake
# will honor the 'STRIP' environment variable to overrule this program.
dnl Don't test for $cross_compiling = yes, because it might be 'maybe'.
if test "$cross_compiling" != no; then
AC_CHECK_TOOL([STRIP], [strip], :)
fi
INSTALL_STRIP_PROGRAM="\$(install_sh) -c -s"
AC_SUBST([INSTALL_STRIP_PROGRAM])])

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# _AM_SUBST_NOTMAKE(VARIABLE)

```

```

# -----
# Prevent Automake from outputting VARIABLE = @VARIABLE@ in Makefile.in.
# This macro is traced by Automake.
AC_DEFUN([_AM_SUBST_NOTMAKE])

# Check how to create a tarball.                -*- Autoconf -*-

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# serial 2

# _AM_PROG_TAR(FORMAT)
# -----
# Check how to create a tarball in format FORMAT.
# FORMAT should be one of 'v7', 'ustar', or 'pax'.
#
# Substitute a variable $(am__tar) that is a command
# writing to stdout a FORMAT-tarball containing the directory
# $stardir.
#   tardir=directory && $(am__tar) > result.tar
#
# Substitute a variable $(am__untar) that extract such
# a tarball read from stdin.
#   $(am__untar) < result.tar
AC_DEFUN([_AM_PROG_TAR],
[# Always define AMTAR for backward compatibility.
AM_MISSING_PROG([AMTAR], [tar])
m4_if([$1], [v7],
  [am__tar='${AMTAR} chof - "$stardir"; am__untar='${AMTAR} xf -'],
  [m4_case([$1], [ustar],,, [pax],,,
    [m4_fatal([Unknown tar format])])])
AC_MSG_CHECKING([how to create a $1 tar archive])
# Loop over all known methods to create a tar archive until one works.
_am_tools='gnutar m4_if([$1], [ustar], [plaintar]) pax cpio none'
_am_tools=${am_cv_prog_tar_$1-$_am_tools}
# Do not fold the above two line into one, because Tru64 sh and
# Solaris sh will not grok spaces in the rhs of '-'.
for _am_tool in $_am_tools
do
case $_am_tool in
gnutar)
for _am_tar in tar gnutar gtar;
do
AM_RUN_LOG([$_am_tar --version]) && break

```

```

done
am__tar="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - ""$stardir""
am__tar_="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - ""$stardir""
am__untar="$_am_tar -xf -"
;;
plaintar)
# Must skip GNU tar: if it does not support --format= it doesn't create
# ustar tarball either.
(tar --version) >/dev/null 2>&1 && continue
am__tar='tar chf - "$stardir"'
am__tar_='tar chf - "$stardir"'
am__untar='tar xf -'
;;
pax)
am__tar='pax -L -x $1 -w "$stardir"'
am__tar_='pax -L -x $1 -w "$stardir"'
am__untar='pax -r'
;;
cpio)
am__tar='find "$stardir" -print | cpio -o -H $1 -L'
am__tar_='find "$stardir" -print | cpio -o -H $1 -L'
am__untar='cpio -i -H $1 -d'
;;
none)
am__tar=false
am__tar_=false
am__untar=false
;;
esac

# If the value was cached, stop now. We just wanted to have am__tar
# and am__untar set.
test -n "${am_cv_prog_tar_$1}" && break

# tar/untar a dummy directory, and stop if the command works
rm -rf conftest.dir
mkdir conftest.dir
echo GrepMe > conftest.dir/file
AM_RUN_LOG([tardir=conftest.dir && eval $am__tar_ >conftest.tar])
rm -rf conftest.dir
if test -s conftest.tar; then
  AM_RUN_LOG([$am__untar <conftest.tar])
  grep GrepMe conftest.dir/file >/dev/null 2>&1 && break
fi
done
rm -rf conftest.dir

AC_CACHE_VAL([am_cv_prog_tar_$1], [am_cv_prog_tar_$1=$_am_tool])

```

```

AC_MSG_RESULT([$am_cv_prog_tar_$1])
AC_SUBST([am__tar])
AC_SUBST([am__untar])
]) # _AM_PROG_TAR

#!/bin/sh
# Common stub for a few missing GNU programs while installing.

scriptversion=2003-09-02.23

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# Originally by Fran,cois Pinard <pinard@iro.umontreal.ca>, 1996.

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if test $# -eq 0; then
  echo 1>&2 "Try '$0 --help' for more information"
  exit 1
fi
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# 1.239 libffi 3.0.5 :3.2.el6

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## 1.240 libfontenc 1.0.5 :2.el6

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## 1.241 libgpg-error 1.7 :4.el6

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

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

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software



sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work

based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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and the section as a whole is intended to apply in other circumstances.

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

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

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.244 libidn 1.18 :2.e16

### 1.244.1 Available under license :

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Version 3, 29 June 2007

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

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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.

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

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

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

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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.

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

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

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

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- b) The work must carry prominent notices stating that it is

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

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

#### 6. Conveying Non-Source Forms.

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

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

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

conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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

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

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

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"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must

suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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\*/

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```
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## 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

=====

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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that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

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

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

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## REFERENCES

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

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

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

sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

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

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

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

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

A PostScript version of the JFIF document is available at

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

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

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

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org).

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

<http://www.ijg.org/files/jpegsrc.v8d.tar.gz>, and in Windows-compatible

"zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

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

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

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## 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](mailto:jpeg-info@jpegclub.org).

# 1.249 libnih 1.0.1 :7.e16

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\* lib/libdns/dst\_internal.h

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\* lib/libisc/inet\_aton.c, lib/liblwres/lwinetaton.c

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\* include/libbsdkey/libpfkey.h, lib/libbsdkey/\*, lib/liblwres/getnameinfo.c

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\* lib/libcrypto/liblswcrypto/cryptodev.c

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

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## 1.260 libSM 1.2.1 :2.e16

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## 1.261 libsndfile 1.0.20 :5.el6

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## 1.262 libssh2 1.4.2 :2.el6\_7.1

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%

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%

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% texi2dvi shell script that comes with the distribution. For a simple  
% manual foo.texi, however, you can get away with this:

% `tex foo.texi`

% `texindex foo.??`

```
% tex foo.texi
% tex foo.texi
% dvips foo.dvi -o # or whatever; this makes foo.ps.
% The extra TeX runs get the cross-reference information correct.
% Sometimes one run after texindex suffices, and sometimes you need more
% than two; texi2dvi does it as many times as necessary.
%
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```

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% tex foo.texi
% tex foo.texi
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% than two; texi2dvi does it as many times as necessary.
%
% It is possible to adapt texinfo.tex for other languages, to some
```

% extent. You can get the existing language-specific files from the  
% full Texinfo distribution.

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Version 2.1, February 1999

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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.

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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 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.

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# ltmmain.sh - Provide generalized library-building support services.

# NOTE: Changing this file will not affect anything until you rerun configure.

#

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# Originally by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996

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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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# 1.272 libuuid 2.17.2 :12.24.el6\_8.3

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```

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```
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```

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```

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```
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This is free software, and you are welcome to redistribute it
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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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# 1.275 libwww 5.4.0

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```
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<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<title>W3C IPR SOFTWARE NOTICE</title>
</head>

<body text="#000000" bgcolor="#FFFFFF">
<h1>W3C IPR SOFTWARE NOTICE</h1>

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<p>&nbsp;</p>

<address>

<a href="http://www.w3.org/Help/Webmaster.html">webmaster</a><br>

(last updated <!--webbot bot="Timestamp" startspan S-Type="EDITED" S-Format="%d-%b-%Y" -->

14-Aug-1998<!--webbot bot="Timestamp"

i-checksum="15568" endspan -->

)

</address>

</body>

</html>

# 1.276 libwww/Library/src/vms/ 5.4.0

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Version 2, June 1991

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```
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<p>&nbsp;</p>  
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(last updated <!--webbot bot="Timestamp" startspan S-Type="EDITED" S-Format="%d-%b-%Y" -->  
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## 1.277 libwww/modules/expat 5.4.0

### 1.277.1 Available under license :

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S-Format="%d-%b-%Y" -->

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\*/

```

#include "xmldef.h"

#ifdef XML_UNICODE_WCHAR_T
#ifndef XML_UNICODE
#define XML_UNICODE
#endif
#endif

#include "hashtable.h"

#define INIT_SIZE 64

static
int keyeq(KEY s1, KEY s2)
{
    for (; *s1 == *s2; s1++, s2++)
        if (*s1 == 0)
            return 1;
    return 0;
}

static
unsigned long hash(KEY s)
{
    unsigned long h = 0;
    while (*s)
        h = (h << 5) + h + (unsigned char)*s++;
    return h;
}

NAMED *lookup(HASH_TABLE *table, KEY name, size_t createSize)
{
    size_t i;
    if (table->size == 0) {
        if (!createSize)
            return 0;
        table->v = calloc(INIT_SIZE, sizeof(NAMED *));
        if (!table->v)
            return 0;
        table->size = INIT_SIZE;
        table->usedLim = INIT_SIZE / 2;
        i = hash(name) & (table->size - 1);
    }
    else {
        unsigned long h = hash(name);
        for (i = h & (table->size - 1);
            table->v[i];

```

```

        i == 0 ? i = table->size - 1 : --i) {
        if (keyeq(name, table->v[i]->name))
return table->v[i];
    }
    if (!createSize)
        return 0;
    if (table->used == table->usedLim) {
        /* check for overflow */
        size_t newSize = table->size * 2;
        NAMED **newV = calloc(newSize, sizeof(NAMED *));
        if (!newV)
return 0;
        for (i = 0; i < table->size; i++)
    if (table->v[i]) {
        size_t j;
        for (j = hash(table->v[i]->name) & (newSize - 1);
            newV[j];
            j == 0 ? j = newSize - 1 : --j)
            ;
        newV[j] = table->v[i];
    }
        free(table->v);
        table->v = newV;
        table->size = newSize;
        table->usedLim = newSize/2;
        for (i = h & (table->size - 1);
            table->v[i];
            i == 0 ? i = table->size - 1 : --i)
            ;
        }
    }
    table->v[i] = calloc(1, createSize);
    if (!table->v[i])
        return 0;
    table->v[i]->name = name;
    (table->used)++;
    return table->v[i];
}

```

```

void hashTableDestroy(HASH_TABLE *table)
{
    size_t i;
    for (i = 0; i < table->size; i++) {
        NAMED *p = table->v[i];
        if (p)
            free(p);
    }
    free(table->v);
}

```



```

}

void hashTableInit(HASH_TABLE *p)
{
    p->size = 0;
    p->usedLim = 0;
    p->used = 0;
    p->v = 0;
}

void hashTableIterInit(HASH_TABLE_ITER *iter, const HASH_TABLE *table)
{
    iter->p = table->v;
    iter->end = iter->p + table->size;
}

NAMED *hashTableIterNext(HASH_TABLE_ITER *iter)
{
    while (iter->p != iter->end) {
        NAMED *tem = *(iter->p)++;
        if (tem)
            return tem;
    }
    return 0;
}

```

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## 1.285 libXfixes 5.0.1 :2.1.e16

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## 1.286 libXfont 1.4.5 :5.el6\_7

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```
/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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```

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# 1.287 libXft 2.3.2 :1.e16

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# 1.288 libXi 1.7.4 :1.e16

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## 1.289 libXinerama 1.1.3 :2.1.el6

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## 1.292 libXrandr 1.4.2 :1.e16

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README    this file  
TODO     planned features not yet implemented (may be incomplete :-)  
BUGS     known problems (may also be incomplete :-)  
VERSION   the current version number (note that this is an XSL stylesheet,  
          included by both fo/docbook.xsl and html/docbook.xsl)  
WhatsNew  changes since the last public release (for a complete list  
          of changes, see the ChangeLog file(s))  
common/   contains code common to both stylesheets  
doc/     documentation  
docsrc/   documentation sources

extensions/ Java extensions  
fo/ stylesheets that produce XSL FO  
html/ stylesheets that produce HTML  
htmlhelp/ stylesheets that produce HTML Help  
images/ images  
javahelp/ stylesheets that produce Java Help  
lib/ contains schema-independent functions  
template/ contains templates for building stylesheet customization layers  
xhtml/ stylesheets that produce XHTML

## Changes

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See the ChangeLog in each directory for additional information about the specific changes.

See WhatsNew for changes since the last release.

## Installation

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xhtml/docbook.xsl produces an XHTML result tree  
html/docbook.xsl produces an HTML result tree  
fo/docbook.xsl produces an FO result tree

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## 1.295 libXtst 1.2.2 :2.1.e16

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## 1.297 Im\_sensors 3.1.1 :17.el6

## 1.297.1 Available under license :

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

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Original author of libsensors, sensors-detect, sensors and isadump.

\* Merlin Hughes

Original author of sensord.

\* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

\* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

\* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

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

```
# py-compile - Compile a Python program
```

```
scriptversion=2005-05-14.22
```

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## 1.309 m4 1.4.13

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

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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

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This program is free software; you can redistribute it and/or modify  
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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  
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```

The hypothetical commands `show w' and `show c' should show the appropriate

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

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```

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```
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```

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

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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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```

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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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# 1.329 neon 0.30.1

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Version 2, June 1991

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## 1.332 newt 0.52.11 :3.e16

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## 1.333 nginx 1.8.1

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-----

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## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
```

```
<title>Copyright Notice</title>
```

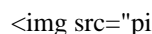
```
<link href="scripts/style.css" type="text/css" rel="stylesheet">
```

```
</head>
```

```
<body>
```



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Last update:

`<!-- #BeginDate format:En2m -->1-Jan-2011 08:34<!-- #EndDate --> UTC</csobj></p>`

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`<li class="inline"><a href="mailto:%20mark_andrews@isc.org">Mark Andrews <mark_andrews@isc.org></a>` Leitch atomic clock controller

`<li class="inline"><a href="mailto:%20altmeier@atsoft.de">Bernd Altmeier <altmeier@atsoft.de></a>` hopf Elektronik serial line and PCI-bus devices

`<li class="inline"><a href="mailto:%20vbais@mailman1.intel.co">Viraj Bais <vbais@mailman1.intel.com></a>` and `<a href="mailto:%20kirkwood@striderfm.intel.com">Clayton Kirkwood <kirkwood@striderfm.intel.com></a>` port to WindowsNT 3.5

`<li class="inline"><a href="mailto:%20michael.barone@lmco.com">Michael Barone <michael,barone@lmco.com></a>` GPSVME fixes

`<li class="inline"><a href="mailto:%20karl@owl.HQ.ileaf.com">Karl Berry <karl@owl.HQ.ileaf.com></a>` syslog to file option

`<li class="inline"><a href="mailto:%20greg.brackley@bigfoot.com">Greg Brackley <greg.brackley@bigfoot.com></a>` Major rework of WINNT port. Clean up rcvbuf and iosignal code into separate modules.

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[Casey Crellin](mailto:casey@csc.co.za) <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration

[Sven Dietrich](mailto:Sven_Dietrich@trimble.COM) <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

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5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
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21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
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27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
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38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntprtrace utility
39. [42]Tom Moore <tmoore@fieval.daytonoh.ncr.com> i386 svr4 port
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41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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  50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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Version 3, 29 June 2007

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```
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```

```
Test/demo program for libnuma. This is also a more or less useful benchmark  
of the NUMA characteristics of your machine. It benchmarks most possible  
NUMA policy memory configurations with various benchmarks.
```

```
Compile standalone with cc -O2 numademo.c -o numademo -lnuma -lm
```

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All calls are undefined when numa\_available returns an error. \*/

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persistence-xsd.rsrc - included in the openjpa jar, taken from:  
http://java.sun.com/xml/ns/persistence/persistence\_1\_0.xsd  
persistence\_2\_0-xsd.rsrc - included in the openjpa jar, taken from:  
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\* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT

## 1.352 OpenSSL 1.0.2o

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# 1.358 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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```

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```

```
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## 1.363 pam 1.1.1 :22.el6

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## 1.364 pam\_krb5 2.3.11 :9.el6

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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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That's all there is to it!

## 1.366 passwd 0.77 :7.el6

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```

```
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# 1.367 patch 2.6 :6.el6

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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```

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```
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```

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## 1.373 perl-Pod-Simple 3.13 :141.el6\_7.1

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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# 1.374 pinentry 0.7.6 :8.el6

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```
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```

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

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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.

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### Bouncy Castle library (bcprov-\*.jar, bcpng-\*.jar, bcpx-\*.jar)

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JUnit test library (junit-4.\*.jar) & JaCoCo (\*jacoco\*)

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Hamcrest library (hamcrest-\*.jar) & CuvesAPI / Curve API

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=UTF-8">
<!--*** This is a generated file. Do not edit. ***-->
<link rel="stylesheet" href="skin/tigris.css" type="text/css">
<link rel="stylesheet" href="skin/mysite.css" type="text/css">
<link rel="stylesheet" href="skin/site.css" type="text/css">
<link media="print" rel="stylesheet" href="skin/print.css" type="text/css">
<title>Apache POI - Legal Stuff</title>
```

```

</head>
<body bgcolor="white" class="composite">
<!--===== start Banner =====-->
<div id="banner">
<table width="100%" cellpadding="8" cellspacing="0" summary="banner" border="0">
<tbody>
<tr>
<!--===== start Group Logo =====-->
<td width="50%" align="left">
<div class="groupLogo">
<a href="https://www.apache.org"></a>
</div>
</td>
<!--===== end Group Logo =====-->
<!--===== start Project Logo =====--><td width="50%" align="right">
<div align="right" class="projectLogo">
<a href="https://donate.apache.org/"></a><a href="https://poi.apache.org/"></a>
</div>
</td>
<!--===== end Project Logo =====-->
</tr>
</tbody>
</table>
</div>
<!--===== end Banner =====-->
<!--===== start Main =====-->
<table width="100%" cellpadding="0" cellspacing="0" border="0" summary="nav" id="breadcrumbs">
<tbody>
<!--===== start Status =====-->
<tr class="status">
<td>
<!--===== start BreadCrumb =====--><a
href="https://www.apache.org/">Apache</a> | <a href="https://poi.apache.org/">POI</a><a href=""></a>
<!--===== end BreadCrumb =====--></td><td id="tabs">
<!--===== start Tabs =====-->
<div class="tab">
<span class="selectedTab"><a class="base-selected" href="index.html">Home</a></span> | <script
language="Javascript" type="text/javascript">
function printit() {
if (window.print) {
window.print() ;
} else {

```

```

var WebBrowser = '<OBJECT ID="WebBrowser1" WIDTH="0" HEIGHT="0" CLASSID="CLSID:8856F961-
340A-11D0-A96B-00C04FD705A2"></OBJECT>';
document.body.insertAdjacentHTML('beforeEnd', WebBrowser);
WebBrowser1.ExecWB(6, 2);//Use a 1 vs. a 2 for a prompting dialog box WebBrowser1.outerHTML = "";
}
}
</script><script language="Javascript" type="text/javascript">
var NS = (navigator.appName == "Netscape");
var VERSION = parseInt(navigator.appVersion);
if (VERSION > 3) {
document.write(' <a title="PRINT this page OUT" href="javascript:printit()">PRINT</a>');
}
</script>
</div>
<!--===== end Tabs =====>
</td>
</tr>
</tbody>
</table>
<!--===== end Status =====>
<table id="main" width="100%" cellpadding="8" cellspacing="0" summary="" border="0">
<tbody>
<tr valign="top">
<!--===== start Menu =====>
<td id="leftcol">
<div id="navcolumn">
<div class="menuBar">
<div class="menu">
<span class="menuLabel">Overview</span>

<div class="menuItem">
<a href="index.html">Home</a>
</div>

<div class="menuItem">
<a href="download.html">Download</a>
</div>

<div class="menuItem">
<a href="overview.html">Components</a>
</div>

<div class="menuItem">
<a href="text-extraction.html">Text Extraction</a>
</div>

<div class="menuItem">
<a href="encryption.html">Encryption support</a>

```

</div>

<div class="menuItem">  
<a href="casestudies.html">Case Studies</a>  
</div>

<div class="menuItem">  
<a href="related-projects.html">Related projects</a>  
</div>

<div class="menuItem">  
<span class="menuSelected">Legal</span>  
</div>

</div>  
<div class="menu">  
<span class="menuLabel">Help</span>

<div class="menuItem">  
<a href="apidocs/index.html">Javadocs</a>  
</div>

<div class="menuItem">  
<a href="faq.html">FAQ</a>  
</div>

<div class="menuItem">  
<a href="mailinglists.html">Mailing Lists</a>  
</div>

<div class="menuItem">  
<a href="https://bz.apache.org/bugzilla/buglist.cgi?product=POI">Bug Database</a>  
</div>

<div class="menuItem">  
<a href="changes.html">Changelog</a>  
</div>

</div>  
<div class="menu">  
<span class="menuLabel">Getting Involved</span>

<div class="menuItem">  
<a href="subversion.html">Subversion Repository</a>  
</div>

<div class="menuItem">  
<a href="howtobuild.html">How To Build</a>

</div>

<div class="menuItem">  
<a href="guidelines.html">Contribution Guidelines</a>  
</div>

<div class="menuItem">  
<a href="who.html">Who We Are</a>  
</div>

</div>  
<div class="menu">  
<span class="menuLabel">Component APIs</span>

<div class="menuItem">  
<a href="spreadsheet/index.html">Excel (SS=HSSF+XSSF+SXSSF)</a>  
</div>

<div class="menuItem">  
<a href="slideshow/index.html">PowerPoint (SL=HSLF+XSLF)</a>  
</div>

<div class="menuItem">  
<a href="document/index.html">Word (WP=HWPF+XWPF)</a>  
</div>

<div class="menuItem">  
<a href="hsmf/index.html">Outlook (HSMF)</a>  
</div>

<div class="menuItem">  
<a href="diagram/index.html">Visio (HDGF+XDGF)</a>  
</div>

<div class="menuItem">  
<a href="hpbfs/index.html">Publisher (HPBF)</a>  
</div>

</div>  
<div class="menu">  
<span class="menuLabel">Low-level Component APIs</span>

<div class="menuItem">  
<a href="poifs/index.html">OLE2 Filesystem (POIFS)</a>  
</div>

<div class="menuItem">  
<a href="hpsf/index.html">OLE2 Document Props (HPSF)</a>

</div>

<div class="menuItem">

<a href="hmfef/index.html">TNEF (HMEF) for winmail.dat</a>

</div>

<div class="menuItem">

<a href="oxml4j/index.html">OpenXML4J (OOXML)</a>

</div>

<div class="menuItem">

<a href="logging.html">Logging framework</a>

</div>

</div>

<div class="menu">

<span class="menuLabel">Apache Wide</span>

<div class="menuItem">

<a href="https://www.apache.org/">Apache Software Foundation</a>

</div>

<div class="menuItem">

<a href="https://www.apache.org/licenses/">License</a>

</div>

<div class="menuItem">

<a href="https://www.apache.org/foundation/sponsorship.html">Sponsorship</a>

</div>

<div class="menuItem">

<a href="https://www.apache.org/foundation/thanks.html">Thanks</a>

</div>

<div class="menuItem">

<a href="https://www.apache.org/security/">Security</a>

</div>

</div>

</div>

</div>

<form target="\_blank" action="https://www.google.com/search" method="get">

<table summary="search" border="0" cellspacing="0" cellpadding="0">

<tr>

<td></td><td nowrap="nowrap">

Search Apache POI<br>

<input value="poi.apache.org" name="sitesearch" type="hidden"><input size="10" name="q" id="query"

type="text"><input name="Search"

```
value="GO" type="submit"></td><td></td>
</tr>
<tr>
<td colspan="3"></td>
</tr>
<tr>
<td class="bottom-left-thick"></td><td bgcolor="#a5b6c6"></td><td class="bottom-right-thick"></td>
</tr>
</table>
</form>
</td>
```

```
<!--===== end Menu =====-->
<!--===== start Content =====--><td>
```

```
<div id="bodycol">
<div class="app">
<div align="center">
<h1>Apache POI - Legal Stuff</h1>
</div>
<div class="h3">
```

```
<a name="License+and+Notice"></a>
<div class="h3">
<h3>License and Notice<a title="Permanent link" class="headerlink" href="#License+and+Notice">#</a>
</h3>
</div>
```

```
<p>
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See the NOTICE file contained in each release artifact for applicable copyright attribution notices. Release artifacts
are available
from the <a href="download.html">Download</a> page.
</p>
```

```
<a name="Copyrights+and+Trademarks"></a>
<div class="h3">
<h3>Copyrights and Trademarks<a title="Permanent link" class="headerlink"
href="#Copyrights+and+Trademarks">#</a>
</h3>
</div>
```

```
<p>
```



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</p>

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</p>

<a name="Cryptography+Notice"></a>

<div class="h4">

<h4>Cryptography Notice<a title="Permanent link" class="headerlink" href="#Cryptography+Notice">#</a>

</h4>

</div>

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</p>

<p>

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</p>

<p>

The cryptographic software used is from <em>java.security</em> and <em>javax.crypto</em> and is used when processing encrypted and protected documents.

</p>

```
<div id="authors" align="right">by&nbsp;Tetsuya Kitahata,&nbsp;David Fisher</div>
</div>
</div>
</div>
</td>
<!--===== end Content =====>
</tr>
</tbody>
</table>
<!--===== end Main =====>
<!--===== start Footer =====>
<div id="footer">
<table summary="footer" cellspacing="0" cellpadding="4" width="100%" border="0">
<tbody>
<tr>
<!--===== start Copyright =====>
<td colspan="2">
<div align="center">
<div class="copyright">
    Copyright &copy; 2002-2017&nbsp;The Apache Software Foundation. All rights reserved.<br>
    Apache, Apache POI, and the Apache POI logo are registered trademarks or
    trademarks of The Apache Software Foundation in the U.S. and/or other countries.
</div>
</div>
</td>
<!--===== end Copyright =====>
</tr>
<tr>
<td align="left">
<!--===== start Host =====>
<!--===== end Host =====></td><td align="right">
<!--===== start Credits =====>
<div align="right">
```

```
<div class="credit"></div>
</div>
<!--===== end Credits =====-->
</td>
</tr>
</tbody>
</table>
</div>
<!--===== end Footer =====-->
</body>
</html>
```

# 1.380 poi 3.7

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# 1.381 polycoreutils 2.0.83 :30.1.el6\_8

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## 1.383 popt 1.13 :7.el6

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Version 2, June 1991

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## 1.385 postfix 2.6.6 :6.el6\_7.1

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Author:

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- Postfix/TLS support was originally developed by Lutz Jaenicke of Brandenburg University of Technology, Cottbus, Germany.

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Included for the use of the fix\_strcasecmp.c module which works around a Solaris problem.

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# 1.387 procps 3.2.8 :36.el6

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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.

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

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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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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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This option is useful when you wish to copy part of the code of

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

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#

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# Usage: $progname [OPTION]... [MODE-ARG]...
#

```

## 1.390 pth 2.0.7 :9.3.e16

### 1.390.1 Available under license :

```

-----
| _\|_|_|_      "Ian Fleming was a UNIX fan!
| | )|_|'_\      How do I know? Well, James Bond
| _/|_|_|_|     had the (license to kill) number 007,
| | \_|_|_|     i.e., he could execute anyone!"

```

GNU Pth - The GNU Portable Threads

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

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-- Lennart Poettering, April 20th, 2006.



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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

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

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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## 1.396 python-slip 0.2.20 :1.el6\_2

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```
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```
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```
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```

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## 1.397 python-suds 0.4.1 :3.e16

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setuext/install\_data.py:

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schema/trex.py

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test/domapi/ (and test/test\_pyxmlDOM.py)

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## 1.399 radvd 1.6 :1.e16

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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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# 1.404 rsync 3.0.6

## 1.404.1 Available under license :

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Version 3, 29 June 2007

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## 1.407 saaj-api 1.3.4

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```
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```

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```
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```

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```
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'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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# 1.410 sed 4.2.1 :10.e16

## 1.410.1 Available under license :

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Version 3, 29 June 2007

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# 1.412 servlet-api 2.2

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## 1.413 setools 3.3.7 :4.e16

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Version 2.1, February 1999

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```

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Upstream-Contact: Bryn M. Reeves <bmr@redhat.com>

Source: <https://github.com/sosreport/sos>

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```
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```

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```
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```

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# 1.442 tar 1.23 :14.el6

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## 1.443 tcl 8.5.7 :6.e16

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```

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## :9.20090921gitdf3cb4.2.el6

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## 1.446 tcsh 6.17 :35.e16

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People who have contributed to tcsh for win32 with bugfixes, functionality, and other useful pieces of code. If I've left you out, please let me know !

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/\*-

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\*/

/\*

\* config.h -- configure various defines for tcsh

\*

\* All source files should #include this FIRST.

\*

\* Edit this to match your system type.

\*/

#ifndef \_h\_config

#define \_h\_config

/\*\*\*\*\*\* System dependant compilation flags \*\*\*\*\*/

/\*

\* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).

\*/

#undef POSIX

/\*

\* POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX)

\* job control facilities.

\*/

#undef POSIXJOBS

/\*

\* VFORK This machine has a vfork().

\* It used to be that for job control to work, this define

\* was mandatory. This is not the case any more.

\* If you think you still need it, but you don't have vfork,

\* define this anyway and then do #define vfork fork.

\* I do this anyway on a Sun because of yellow pages brain damage,

\* [should not be needed under 4.1]

\* and on the iris4d cause SGI's fork is sufficiently "virtual"

\* that vfork isn't necessary. (Besides, SGI's vfork is weird).

\* Note that some machines eg. rs6000 have a vfork, but not

\* with the berkeley semantics, so we cannot use it there either.

\*/

#define VFORK

/\*

\* BSDJOBS You have BSD-style job control (both process groups and

\* a tty that deals correctly

```

*/
#define BSDJOBS

/*
* BSDTIMES You have BSD-style process time stuff (like rusage)
* This may or may not be true. For example, Apple Unix
* (OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*
* TERMIO You have struct termio instead of struct sgttyb.
* This is usually the case for SYSV systems, where
* BSD uses sgttyb. POSIX systems should define this
* anyway, even though they use struct termios.
*/
#undef TERMIO

/*
* SYSVREL Your machine is SYSV based (HPUX, A/UX)
* NOTE: don't do this if you are on a Pyramid -- tcsh is
* built in a BSD universe.
* Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
* you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL 0

/*
* YPBUGS Work around Sun YP bugs that cause expansion of ~username
* to send command output to /dev/null
*/
#undef YPBUGS

/***** local defines *****/

#undef NLS_CATALOGS
#endif /* _h_config */

```

## 1.447 texinfo 4.13a :8.e16

## 1.447.1 Available under license :

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Version 3, 29 June 2007

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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
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- jsp\_2\_2.xsd
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- web-common\_3\_0.xsd
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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd



- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd

- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

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- javaee\_web\_services\_client\_1\_3.xsd
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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
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- javaee\_web\_services\_1\_3.xsd
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## 1.455 traceroute 2.0.14 :2.e16

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

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

That's all there is to it!

## 1.456 Trio 0.0

### 1.456.1 Available under license :

README -- trio

Trio is a package with portable string functions. Including printf() clones and others.

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Trio is intended to be an integral part of another application, so we have not done anything to create a proper installation.

Compile with 'make' (edit the Makefile if you want a release build)

Test the package with 'make test'

Install by copying trio.h, triop.h, and libtrio.a (and man/man?/\* if you want documentation) to the appropriate directories.

Catch some usage examples in example.c

Send feedback and patches to the mailing list, subscription and other information is found here:

<http://lists.sourceforge.net/lists/listinfo/ctrio-talk>



Enjoy!

Trio web page

<http://daniel.haxx.se/trio/>

# 1.457 ttmkfdir 3.0.9 :32.1.e16

## 1.457.1 Available under license :

LICENSE

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Yu Shao <yshao@redhat.com>

8 January 2003

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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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(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

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Ty Coon, President of Vice

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## 1.458 Tuscany 1.4

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Version 2.0, January 2004

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addressing-1.3.mar  
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axiom-api-1.2.7.jar  
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axis2-kernel-1.4.1.jar  
axis2-mtompolicy-1.4.1.jar  
bsf-all-3.0-beta2.jar  
cglib-nodep-2.1\_3.jar  
commons-collections-3.1.jar  
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commons-fileupload-1.2.jar  
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commons-jexl-1.1.jar  
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commons-logging-1.1.1.jar  
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geronimo-j2ee-management\_1.0\_spec-1.1.jar  
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ode-utils-1.1.1.jar  
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openjpa-persistence-0.9.7-incubating.jar  
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org.apache.felix.framework-1.0.4.jar

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org.apache.felix.shell-1.0.1.jar  
org.apache.felix.shell.tui-1.0.1.jar  
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rampart-policy-1.4.jar  
rampart-trust-1.4.jar  
regexp-1.3.jar  
spring-beans-2.5.5.jar  
spring-context-2.5.5.jar  
spring-core-2.5.5.jar  
tranql-connector-1.1.jar  
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woden-api-1.0M8.jar  
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axion-1.0-M3-dev.jar

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/\*

\$Id: LICENSE.txt 156 2003-09-26 17:36:37Z jstrachan \$

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A. HISTORY OF THE SOFTWARE

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jaxb-api-2.1.jar,  
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jsr181-api-1.0-MR1.jar,  
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--- sun/tools/javazic/Mappings.java.orig 2007-08-30 03:55:48.000000000 -0400

+++ sun/tools/javazic/Mappings.java 2015-04-13 12:39:44.000000000 -0400

@@ -1,12 +1,12 @@

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## 1.461 unbound 1.4.20 :23.e16.3

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## 1.462 unixODBC 2.2.14 :14.e16

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END OF TERMS AND CONDITIONS

# 1.464 unzip 6.0 :4.e16

## 1.464.1 Available under license :

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This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

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### FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future

releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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* having made changes. If you're going to
* redistribute the source, we require that you make
* it clear in the source that the code was descended
* from Apple Sample Code, but that you've made
* changes."
```

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The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

- \* MacBinaryIII.h
- \*
- \* Copyright 1997 Christopher Evans (cevens@poppybank.com)
- \*
- \* Basic encoding and decoding of Macintosh files to the
- \* MacBinary III spec.
- \* -----
- \* This source is copyrighted by Christopher Evans (cevens@poppybank.com)
- \* (available at ftp://ftp.lazerware.com/MacBinaryIII\_src\_C.sit
- \* homepage of Leonard Rosenthol leonardr@netcom.com)

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten

and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduced code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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# 1.465 upstart 0.6.5 :16.e16

## 1.465.1 Available under license :

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Version 2, June 1991

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## 1.469 utf8proc 1.1.5

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## 1.474 which 2.19 :6.el6

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sep

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## 1.489 zip 3.0 :1.el6\_7.1

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# 1.490 zlib 1.2.3

## 1.490.1 Available under license :

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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