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(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, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into 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 (spare, initial 64-bit support).

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

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

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

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

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

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

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

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

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:

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## 1.12 chardet 3.0.4

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## 1.13 curl 7.61.0

# 1.14 fortify-headers 0.8-r0

# 1.15 gcc 6.3.0-r4

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```
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fix issues with fortify-headers and the way openssh handles the needed
BSD compatible realpath(3).
unconditionally use the provided realpath() as otherwise cross-builds
would try to use musl realpath() which is posix compliant and not
working to openssh expectations.
diff -ru openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h openssh-7.2p2/openbsd-compat/openbsd-compat.h
--- openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/openbsd-compat/openbsd-compat.h 2016-07-18 13:33:16.260357745 +0300
@@ -68,17 +68,7 @@
void *reallocarray(void *, size_t, size_t);
#endif
-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
- * glibc's FORTIFY_SOURCE can redefine this and prevent us picking up the
- * compat version.
-# ifdef BROKEN_REALPATH
-# define realpath(x, y) _ssh_compat_realpath(x, y)
```

-char \*realpath(const char \*path, char \*resolved);

-# endif

```
-#endif
+char *ssh_realpath(const char *path, char *resolved);
#ifndef HAVE_RRESVPORT_AF
int rresvport_af(int *alport, sa_family_t af);
diff -ru openssh-7.2p2.orig/openbsd-compat/realpath.c openssh-7.2p2/openbsd-compat/realpath.c
--- openssh-7.2p2.orig/openbsd-compat/realpath.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/openbsd-compat/realpath.c 2016-07-18 13:33:45.420721690 +0300
@@ -31,7 +31,7 @@
#include "includes.h"
-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
+#if 1
#include <sys/types.h>
#include <sys/param.h>
@@ -58,7 +58,7 @@
* in which case the path which caused trouble is left in (resolved).
*/
char *
-realpath(const char *path, char *resolved)
+ssh_realpath(const char *path, char *resolved)
struct stat sb;
char *p, *q, *s;
diff -ru openssh-7.2p2.orig/sftp-server.c openssh-7.2p2/sftp-server.c
--- openssh-7.2p2.orig/sftp-server.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/sftp-server.c 2016-07-18 13:34:29.131267241 +0300
@@ -1162,7 +1162,7 @@
}
debug3("request %u: realpath", id);
verbose("realpath \"%s\"", path);
- if (realpath(path, resolvedname) == NULL) {
+ if (ssh_realpath(path, resolvedname) == NULL) {
 send_status(id, errno_to_portable(errno));
} else {
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
```

```
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
_builddir="$srcdir"/libart_lgpl-$pkgver
prepare() {
cd "$_builddir"
update_config_sub || return 1
}
build() {
cd "$_builddir"
./configure \
 --build=$CBUILD \
 --host=$CHOST \
 --prefix=/usr \
 || return 1
make || return 1
}
package() {
cd "$ builddir"
make DESTDIR="$pkgdir" install || return 1
md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart lgpl-2.3.21.tar.bz2"
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```
see http://www.sqlite.org/copyright.html
--- a/expected/plluatest.out
+++ b/expected/plluatest.out
@@ -232,8 +232,8 @@
 1 | name | data
(1 row)
+SET client_min_messages = warning;
CREATE TABLE tree (id INT PRIMARY KEY, lchild INT, rchild INT);
-NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "tree_pkey" for table "tree"
CREATE FUNCTION filltree (t text, n int) RETURNS void AS $$
 local p = server.prepare("insert into " .. t .. " values($1, $2, $3)",
  {"int4", "int4", "int4"})
--- a/sql/plluatest.sql
+++ b/sql/plluatest.sql
@@ -160,6 +160,7 @@
SELECT * FROM get_rows('name');
```

+SET client\_min\_messages = warning; CREATE TABLE tree (id INT PRIMARY KEY, lchild INT, rchild INT);

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```
find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}
md5sums="0c5fd53d93818566234578b27d667b35" Software-License-0.103004.tar.gz"
# Contributor: Fabian Affolter < fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter < fabian@affolter-engineering.ch>
pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=0
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname-$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver
build() {
cd "$builddir"
python3 setup.py build || return 1
}
package() {
cd "$builddir"
python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}
md5sums="c6348990c6d74933bf5d5f6a55a14bdf flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73 flake8-copyright-
0.2.0.tar.gz"
sha512sums="bab1bfaeed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faff5d586c3b1be9570f4a977a7e
2417b586e543bfba12abce256b2023c8c4993eeb90 flake8-copyright-0.2.0.tar.gz"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=" "
depends="$cpandepends"
```

```
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"
_builddir="$srcdir/$_pkgreal-$pkgver"
prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL MM USE DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}
package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}
md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06 BSD-Resource-
1.2909.tar.gz"
sha512 sums = "5f489 eaac 5089 e82081 b7 cf51 d62638750 e443751 b49415407354 da96 b17771819 b5 e6e85529 faa41 ddd and before the state of the stat
85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
```

# 1.16 git 2.13.6

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Version 2.1, February 1999

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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	Deriv	ed Y	Year		er	GPL	
			com	patibl	e? (1)		
0.9.0 thru	1.2	1991	1-1995	CW	[	yes	
1.3 thru 1.5.2 1.2		1995-1999 CI		CN	RI	yes	
1.6	1.5.2	2000	CN	RI	no		
2.0	1.6	2000 BeOpen.		com no			
1.6.1	1.6	2001	CN	RI	yes	(2)	
2.1	2.0+1.6	.1 200	1 P	SF	no		
2.0.1	2.0+1.6	5.1 200	)1 I	PSF	ye	es	
2.1.1	2.1+2.0	0.1 200	)1 I	PSF	ye	es	
2.2	2.1.1	2001	PSI	F	yes		
2.1.2	2.1.1	2002	PS	F	yes		
2.1.3	2.1.2	2002	PS	PSF		yes	
2.2.1	2.2	2002	PSI	PSF		yes	
2.2.2	2.2.1	2002	PS	PSF		yes	
2.2.3	2.2.2	2003	PS	PSF		yes	
2.3	2.2.2	2002-	2003 I	PSF	ye	es	
2.3.1	2.3	2002-	2003 I	PSF	ye	es	
2.3.2	2.3.1	2002-	-2003	PSF	У	es	
2.3.3	2.3.2	2002-	-2003	PSF	У	es	
2.3.4	2.3.3	2004	PS	F	yes		
2.3.5	2.3.4	2005	PS	F	yes		
2.4	2.3	2004	PSF	ï	yes		
2.4.1	2.4	2005	PSI	F	yes		
2.4.2	2.4.1	2005	PS	F	yes		
2.4.3	2.4.2	2006	PS	F	yes		
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dateutil - Extensions to the standard Python datetime module.

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# 1.20 libc-dev 0.7.1:0

# 1.21 libc-utils 0.7.1-r0 :r0

# 1.22 libc6-compat 1.1.16-r14\_al3.6

# 1.23 libffi-dev 3.2.1-r3

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# 1.24 libressl 2.5.4:0

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@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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@end enumerate

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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 state the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

## @smallexample

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

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

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

### @smallexample

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

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collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

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

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

#### Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

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

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

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

 $Al\ Dosser\ (dosser@src.dec.com)\ and\ Regis\ Cridlig\ (Regis.Cridlig@cl.cam.ac.uk)$  subsequently provided updates and information on variation between ULTRIX

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.

systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

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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```
#!/usr/bin/python

# Copyright (C) 2013-2016 Free Software Foundation, Inc.

# This script 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 3, or (at your option)

# any later version.

# This script adjusts the copyright notices at the top of source files

# so that they have the form:

# Copyright XXXX-YYYY Free Software Foundation, Inc.

# It doesn't change code that is known to be maintained elsewhere or

# that carries a non-FSF copyright.

# The script also doesn't change testsuite files, except those in

# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,

# while most tests in other directories are just things that failed at some
```

```
# point in the past.
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
   update-copyright.pl --this-year
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
   update-copyright.pl --this-year libjava
# would run the script on just libjava/.
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.
import os
import re
import sys
import time
import subprocess
class Errors:
 def __init__ (self):
    self.num\_errors = 0
 def report (self, filename, string):
    if filename:
       string = filename + ': ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1
 def ok (self):
    return self.num_errors == 0
class GenericFilter:
 def __init__ (self):
    self.skip_files = set()
    self.skip_dirs = set()
    self.skip_extensions = set()
    self.fossilised_files = set()
```

```
self.own_files = set()
  self.skip_files |= set ([
       # Skip licence files.
       'COPYING',
       'COPYING.LIB',
       'COPYING3',
        'COPYING3.LIB',
       'LICENSE',
       'fdl.texi',
       'gpl_v3.texi',
       'fdl-1.3.xml',
        'gpl-3.0.xml',
       # Skip auto- and libtool-related files
        'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'depcomp',
        'install-sh',
       'libtool.m4',
       'ltmain.sh',
        'ltoptions.m4',
       'ltsugar.m4',
       'ltversion.m4',
        'lt~obsolete.m4',
       'missing',
       'mkdep',
        'mkinstalldirs',
       'move-if-change',
       'shlibpath.m4',
        'symlink-tree',
        'ylwrap',
       # Skip FSF mission statement, etc.
        'gnu.texi',
       'funding.texi',
        'appendix_free.xml',
       # Skip imported texinfo files.
        'texinfo.tex',
       ])
def get_line_filter (self, dir, filename):
  if filename.startswith ('ChangeLog'):
     # Ignore references to copyright in changelog entries.
```

```
return re.compile ('\t')
    return None
 def skip_file (self, dir, filename):
    if filename in self.skip_files:
       return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
       return True
    if extension == '.in':
       # Skip .in files produced by automake.
       if os.path.exists (base + '.am'):
         return True
       # Skip files produced by autogen
       if (os.path.exists (base + '.def')
         and os.path.exists (base + '.tpl')):
         return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
       if os.path.exists (base + '.ac'):
         return True
       if os.path.exists (base + '.in'):
         return True
    return False
 def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs
 def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
       return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
       return True
    return False
 def by_package_author (self, dir, filename):
    return filename in self.own_files
class Copyright:
 def __init__ (self, errors):
    self.errors = errors
```

```
# Characters in a range of years. Include '.' for typos.
ranges = [0-9](?:[-0-9.,\s]|\s+and\s+)*[0-9]'
# Non-whitespace characters in a copyright holder's name.
name = '[\w.,-]'
# Matches one year.
self.year\_re = re.compile ('[0-9]+')
# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)
# Matches a full copyright notice:
self.copyright_re = re.compile (
  #1: 'Copyright (C)', etc.
  '([Cc]opyright'
  '|[Cc]opyright\s+\([Cc]\)'
  '|[Cc]opyright\s+%s'
  '|[Cc]opyright\s+©'
  '|[Cc]opyright\s+@copyright{}'
  '|copyright = u \setminus "
  '|@set\s+copyright[\w-]+)'
  # 2: the years. Include the whitespace in the year, so that
  # we can remove any excess.
  '(\s*(?:' + ranges + ',?'
  '|@value\backslash\{[^{\{\}}]^*\backslash\})\backslash s^*)'
  # 3: 'by ', if used
  '(by\s+)?'
  # 4: the copyright holder. Don't allow multiple consecutive
  # spaces, so that right-margin gloss doesn't get caught
  # (e.g. gnat_ugn.texi).
  ('+name + (?:\s?' + name + ')*)?')
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                        re.IGNORECASE)
self.comment\_re = re.compile('#+|[*]+|;+|%+|//+|@c|dnl')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()
# True to 'quilt add' files before changing them.
self.use_quilt = False
```

```
# If set, force all notices to include this year.
  self.max\_year = None
  # Goes after the year(s). Could be ', '.
  self.separator = ' '
def add_package_author (self, holder, canon_form = None):
  if not canon_form:
     canon form = holder
  self.holders[holder] = canon_form
  index = holder.find (' ')
  while index \geq 0:
     self.holder_prefixes.add (holder[:index])
     index = holder.find ('', index + 1)
def add_external_author (self, holder):
  self.holders[holder] = None
class BadYear():
  def __init__ (self, year):
     self.year = year
  def __str__ (self):
     return 'unrecognised year: ' + self.year
def parse_year (self, string):
  year = int (string)
  if len (string) == 2:
     if year > 70:
       return year + 1900
  elif len (string) == 4:
     return year
  raise self.BadYear (string)
def year_range (self, years):
  year_list = [self.parse_year (year)
           for year in self.year_re.findall (years)]
  assert len (year_list) > 0
  return (min (year_list), max (year_list))
def set_use_quilt (self, use_quilt):
  self.use_quilt = use_quilt
def include_year (self, year):
  assert not self.max_year
  self.max\_year = year
```

```
def canonicalise_years (self, dir, filename, filter, years):
  # Leave texinfo variables alone.
  if years.startswith ('@value'):
     return years
  (min_year, max_year) = self.year_range (years)
  # Update the upper bound, if enabled.
  if self.max_year and not filter.is_fossilised_file (dir, filename):
     max_year = max (max_year, self.max_year)
  # Use a range.
  if min_year == max_year:
     return '%d' % min_year
  else:
     return '%d-%d' % (min_year, max_year)
def strip_continuation (self, line):
  line = line.lstrip()
  match = self.comment_re.match (line)
  if match:
     line = line[match.end():].lstrip()
  return line
def is_complete (self, match):
  holder = match.group (4)
  return (holder
       and (holder not in self.holder_prefixes
          or holder in self.holders))
def update_copyright (self, dir, filename, filter, file, line, match):
  orig_line = line
  next_line = None
  pathname = os.path.join (dir, filename)
  intro = match.group (1)
  if intro.startswith ('@set'):
     # Texinfo year variables should always be on one line
     after_years = line[match.end (2):].strip()
     if after_years != ":
       self.errors.report (pathname,
                    'trailing characters in @set: '
                    + after_years)
       return (False, orig_line, next_line)
  else:
     # If it looks like the copyright is incomplete, add the next line.
     while not self.is_complete (match):
       try:
```

```
next_line = file.next()
  except StopIteration:
     break
  # If the next line doesn't look like a proper continuation,
  # assume that what we've got is complete.
  continuation = self.strip_continuation (next_line)
  if not self.continuation_re.match (continuation):
     break
  # Merge the lines for matching purposes.
  orig_line += next_line
  line = line.rstrip() + ' ' + continuation
  next_line = None
  # Rematch with the longer line, at the original position.
  match = self.copyright_re.match (line, match.start())
  assert match
holder = match.group (4)
# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
  assert holder not in self.holders
elif not holder:
  self.errors.report (pathname, 'missing copyright holder')
  return (False, orig_line, next_line)
elif holder not in self.holders:
  self.errors.report (pathname,
               'unrecognised copyright holder: ' + holder)
  return (False, orig_line, next_line)
else:
  # See whether the copyright is associated with the package
  # author.
  canon_form = self.holders[holder]
  if not canon_form:
     return (False, orig_line, next_line)
  # Make sure the author is given in a consistent way.
  line = (line[:match.start (4)]
       + canon_form
       + line[match.end (4):])
  # Remove any 'by'
  line = line[:match.start (3)] + line[match.end (3):]
```

```
# Update the copyright years.
  years = match.group (2).strip()
  try:
     canon_form = self.canonicalise_years (dir, filename, filter, years)
  except self.BadYear as e:
     self.errors.report (pathname, str (e))
     return (False, orig_line, next_line)
  line = (line[:match.start (2)]
        + (" if intro.startswith ('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end (2):])
  # Use the standard (C) form.
  if intro.endswith ('right'):
     intro += '(C)'
  elif intro.endswith ('(c)'):
     intro = intro[:-3] + '(C)'
  line = line[:match.start (1)] + intro + line[match.end (1):]
  # Strip trailing whitespace
  line = line.rstrip() + '\n'
  return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
  pathname = os.path.join (dir, filename)
  if filename.endswith ('.tmp'):
     # Looks like something we tried to create before.
     try:
        os.remove (pathname)
     except OSError:
        pass
     return
  lines = []
  changed = False
  line_filter = filter.get_line_filter (dir, filename)
  with open (pathname, 'r') as file:
     prev = None
     for line in file:
        while line:
          next_line = None
          # Leave filtered-out lines alone.
          if not (line_filter and line_filter.match (line)):
             match = self.copyright_re.search (line)
             if match:
```

```
res = self.update_copyright (dir, filename, filter,
                                    file, line, match)
                 (this_changed, line, next_line) = res
                 changed = changed or this_changed
              # Check for copyright lines that might have slipped by.
              elif self.other_copyright_re.search (line):
                 self.errors.report (pathname,
                              'unrecognised copyright: %s'
                              % line.strip())
            lines.append (line)
            line = next_line
    # If something changed, write the new file out.
    if changed and self.errors.ok():
       tmp_pathname = pathname + '.tmp'
       with open (tmp_pathname, 'w') as file:
         for line in lines:
            file.write (line)
       if self.use_quilt:
         subprocess.call (['quilt', 'add', pathname])
       os.rename (tmp_pathname, pathname)
 def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
       # Don't recurse through directories that should be skipped.
       for i in xrange (len (subdirs) - 1, -1, -1):
         if filter.skip_dir (dir, subdirs[i]):
            del subdirs[i]
       # Handle the files in this directory.
       for filename in filenames:
         if filter.skip_file (dir, filename):
            sys.stdout.write ('Skipping %s\n'
                        % os.path.join (dir, filename))
         else:
            self.process_file (dir, filename, filter)
class CmdLine:
 def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []
```

```
self.add_option ('--help', 'Print this help', self.o_help)
  self.add_option ('--quilt', "'quilt add" files before changing them',
              self.o_quilt)
  self.add_option ('--this-year', 'Add the current year to every notice',
             self.o_this_year)
def add option (self, name, help, handler):
  self.option_help.append ((name, help))
  self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
  self.dirs.append ((dir, filter))
def o_help (self, option = None):
  sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
              'Options:\n' % sys.argv[0])
  format = '\%-15s \% s n'
  for (what, help) in self.option_help:
     sys.stdout.write (format % (what, help))
  sys.stdout.write ('\nDirectories:\n')
  format = '\%-25s'
  i = 0
  for (dir, filter) in self.dirs:
     i += 1
     if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '\n')
     else:
        sys.stdout.write (format % dir)
  sys.exit (0)
def o_quilt (self, option):
  self.copyright.set_use_quilt (True)
def o_this_year (self, option):
  self.copyright.include_year (time.localtime().tm_year)
def main (self):
  for arg in sys.argv[1:]:
     if arg[:1] != '-':
        self.chosen_dirs.append (arg)
     elif arg in self.option_handlers:
        self.option_handlers[arg] (arg)
        self.errors.report (None, 'unrecognised option: ' + arg)
  if self.errors.ok():
     if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
```

```
if len (self.chosen_dirs) == 0:
         self.o_help()
       else:
         for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, ")
            count = 0
            for (dir, filter) in self.dirs:
              if (dir + os.sep).startswith (canon_dir):
                 count += 1
                 self.copyright.process_tree (dir, filter)
            if count == 0:
               self.errors.report (None, 'unrecognised directory: '
                            + chosen dir)
    sys.exit (0 if self.errors.ok() else 1)
class TopLevelFilter (GenericFilter):
 def skip_dir (self, dir, subdir):
    return True
class ConfigFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
 def skip_file (self, dir, filename):
    if filename.endswith ('.m4'):
       pathname = os.path.join (dir, filename)
       with open (pathname) as file:
         # Skip files imported from gettext.
         if file.readline().find ('gettext-') >= 0:
            return True
    return GenericFilter.skip_file (self, dir, filename)
class GCCFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_files |= set ([
         # Not part of GCC
         'math-68881.h',
         1)
    self.skip_dirs |= set ([
         # Better not create a merge nightmare for the GNAT folks.
         'ada',
         # Handled separately.
```

```
'testsuite',
         ])
    self.skip_extensions |= set ([
         # Maintained by the translation project.
         '.po',
         # Automatically-generated.
         '.pot',
         ])
    self.fossilised_files |= set ([
         # Old news won't be updated.
         'ONEWS',
         ])
class TestsuiteFilter (GenericFilter):
 def init (self):
    GenericFilter.__init__ (self)
    self.skip_extensions |= set ([
         # Don't change the tests, which could be woend by anyone.
         '.c',
         '.C',
         '.cc',
         '.h',
         '.hs',
         '.f',
         '.f90',
         '.go',
         '.inc',
         '.java',
         ])
 def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
    return GenericFilter.skip_file (self, dir, filename)
class LibCppFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_extensions |= set ([
         # Maintained by the translation project.
         '.po',
```

```
# Automatically-generated.
         '.pot',
         ])
class LibGCCFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Imported from GLIBC.
         'soft-fp',
         ])
class LibJavaFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Handled separately.
         'testsuite',
         # Not really part of the library
         'contrib',
         # Imported from upstream
         'classpath',
         'libltdl',
         ])
 def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
       return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
       return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)
class LibMudflapFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Handled separately.
         'testsuite',
         ])
class LibStdCxxFilter (GenericFilter):
 def __init__ (self):
```

```
GenericFilter.__init__ (self)
    self.skip_files |= set ([
         # Contains no copyright of its own, but quotes the GPL.
         'intro.xml'.
         1)
    self.skip_dirs |= set ([
         # Contains automatically-generated sources.
         'html'.
         # The testsuite data files shouldn't be changed.
         'data'.
         # Contains imported images
         'images',
         ])
    self.own_files |= set ([
         # Contains markup around the copyright owner.
         'spine.xml',
         ])
 def get line filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
      return re.compile ('//\(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)
class GCCCopyright (Copyright):
 def __init__ (self, errors):
    Copyright.__init__ (self, errors)
    canon fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', canon_fsf)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
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    self.add_external_author ('Florida State University')
```

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self.add_external_author ('Greg Colvin and Beman Dawes.')
    self.add_external_author ('Hewlett-Packard Company')
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    self.add external author ('University of Toronto.')
class GCCCmdLine (CmdLine):
 def init (self):
    CmdLine.__init__ (self, GCCCopyright)
    self.add_dir ('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir ('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir ('fixincludes')
    self.add_dir ('gcc', GCCFilter())
    self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir ('gnattools')
    self.add_dir ('include')
    self.add_dir ('libada')
    self.add_dir ('libatomic')
    self.add_dir ('libbacktrace')
    self.add_dir ('libcpp', LibCppFilter())
    self.add_dir ('libdecnumber')
    # libffi is imported from upstream.
    self.add_dir ('libgcc', LibGCCFilter())
    self.add_dir ('libgfortran')
    self.add_dir ('libgomp')
    self.add_dir ('libiberty')
    self.add_dir ('libitm')
    self.add_dir ('libjava', LibJavaFilter())
    self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
```

```
self.add_dir ('libmudflap', LibMudflapFilter())
    self.add_dir (os.path.join ('libmudflap', 'testsuite'),
            TestsuiteFilter())
    self.add_dir ('libobjc')
    self.add_dir ('libquadmath')
    # libsanitiser is imported from upstream.
    self.add_dir ('libssp')
    self.add_dir ('libstdc++-v3', LibStdCxxFilter())
    self.add_dir ('libvtv')
    self.add_dir ('lto-plugin')
    # zlib is imported from upstream.
    self.default_dirs = [
      'gcc',
      'libada',
      'libatomic'.
      'libbacktrace',
      'libcpp',
      'libdecnumber',
      'libgcc',
      'libgfortran',
      'libgomp',
      'libitm',
      'libmudflap',
      'libobjc',
      'libstdc++-v3',
      1
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</simpara>

<bri>dgehead xml:id="fdl-1-section11" renderas="sect2">

11. RELICENSING

</bridgehead>

<simpara>

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For the developers and authors protection, the

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<acronym>GPL</acronym> requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

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<para>

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<para>

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.

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<para>

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.

</para>

<bridgehead xml:id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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.

</para>

<para>

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.

</para>

<para>

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.

</para>

<para>

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 works 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.

</para>

<para>

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

</para>

<para>

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

</para>

<bri>dgehead xml:id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

<para>

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</para>

<para>

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

</para>

<bri>dgehead xml:id="Protecting" renderas="sect1">

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

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</bridgehead>
<para>
 No covered work shall be deemed part of an effective technological measure
 under any applicable law fulfilling obligations under article 11 of the WIPO
 copyright treaty adopted on 20 December 1996, or similar laws prohibiting or
 restricting circumvention of such measures.
</para>
<para>
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 effected by exercising rights under this License with respect to the covered
 work, and you disclaim any intention to limit operation or modification of
 the work as a means of enforcing, against the works users, your or
 third parties legal rights to forbid circumvention of technological
 measures.
</para>
<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">
 4. Conveying Verbatim Copies.
</bridgehead>
<para>
 You may convey verbatim copies of the Programs source code as you
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 publish on each copy an appropriate copyright notice; keep intact all
 notices stating that this License and any non-permissive terms added in
 accord with section 7 apply to the code; keep intact all notices of the
 absence of any warranty; and give all recipients a copy of this License
 along with the Program.
</para>
<para>
 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.
<bridgehead xml:id="ConveyingModified" renderas="sect1">
 5. Conveying Modified Source Versions.
</bridgehead>
<para>
 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:
</para>
<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
 listitem>
  <para>
   The work must carry prominent notices stating that you modified it, and
   giving a relevant date.
  </para>
 </listitem>
```

stitem>

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<para>
   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.
  </para>
 </listitem>
 stitem>
  <para>
   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.
  </para>
 </listitem>
 stitem>
  <para>
   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.
  </para>
 </listitem>
</orderedlist>
<para>
 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 compilations users beyond what the individual works
 permit. Inclusion of a covered work in an aggregate does not cause
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this License to apply to the other parts of the aggregate.

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</para>
<bri>dgehead xml:id="ConveyingNonSource" renderas="sect1">
 6. Conveying Non-Source Forms.
</bridgehead>
<para>
```

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: </para>

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<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
 listitem>
  <para>
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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.

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</para>
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<para>
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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.

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</para>
</listitem>
<listitem>
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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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</para>
</listitem>
</listitem>
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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.

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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.

</para>

</listitem>

</orderedlist>

<para>

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.

</para>

<para>

A User Product is either (1) a consumer product,

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

</para>

<para>

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.

</para>

<para>

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

<acronym>ROM</acronym>).

</para>

<para>

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for

a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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</para>
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<para>

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

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</para>
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<bri>dgehead xml:id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

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</para>
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<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
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<para>

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<para>

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</para>

<para>

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms

that apply to those files, or a notice indicating where to find the applicable terms.

</para>

<para>

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

</para>

<bridgehead xml:id="gpl-3-termination" renderas="sect1">

8. Termination.

</bridgehead>

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<para>

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</para>

<bridgehead xml:id="AcceptanceNotRequired" renderas="sect1">

9. Acceptance Not Required for Having Copies.

</bridgehead>

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</para>

<bridgehead xml:id="AutomaticDownstream" renderas="sect1">

10. Automatic Licensing of Downstream Recipients.

</bridgehead>

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</para>

<bridgehead xml:id="Patents" renderas="sect1">

11. Patents.

</bridgehead>

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</para>

<para>

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<para>

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</para>

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<para>
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author</replaceable>
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</screen>
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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.

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.

## @item

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

@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:

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## @item

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:

#### @enumerate a

#### @item

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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# @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.

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 Lesser General Public License for more details.

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 1990Ty Coon, President of Vice@end smallexample

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[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.]

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

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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permission to copy, distribute and/or modify the library.

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

^L

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

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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

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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. ^L

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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.

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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.

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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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#define __gnu_javax_sound_AudioSecurityManager$Permission__
#pragma interface
#include <java/lang/Enum.h>
#include <gcj/array.h>
extern "Java"
namespace gnu
 namespace javax
   namespace sound
     class AudioSecurityManager$Permission;
  }
}
class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
AudioSecurityManager$Permission(::java::lang::String *, jint);
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
```

```
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};
```

#endif // \_\_gnu\_javax\_sound\_AudioSecurityManager\$Permission\_\_
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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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SourceFileAudioSecurityManager.java

SignatureCLjava/lang/Enum<Lgnu/javax/sound/AudioSecurityManager\$Permission;>;InnerClasses4\$gnu/javax/sound/AudioSecurityManager

Permission@1@@@

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eAYYYYSYSYS
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35@
```

1 java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String; SourceFilePermission.java

1[java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)VCode

```
()V LineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%'&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lang/Object;
g/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilde
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RTSjava/lang/String01
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```
package gnu.classpath.tools.taglets;
import java.util.Map;
import com.sun.tools.doclets.Taglet;
import com.sun.javadoc.Tag;
/**
* A simple Taglet which handles Copyright information.
public class CopyrightTaglet implements Taglet {
 private static final String NAME = "copyright";
 private static final String HEADER = "Copyright:";
 public String getName() {
   return NAME;
 }
 public boolean inField() {
   return true;
 public boolean inConstructor() {
   return true;
 }
 public boolean inMethod() {
   return true;
 }
```

```
public boolean inOverview() {
 return true;
}
public boolean inPackage() {
 return true;
}
public boolean inType() {
 return true;
}
public boolean isInlineTag() {
 return false;
}
public static void register(Map tagletMap) {
 CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
 tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);\\
}
public String toString(Tag tag) {
 return toString(new Tag[] { tag });
public String toString(Tag[] tags) {
 if (tags.length == 0) {
   return null;
 }
 else {
   boolean haveValidTag = false;
   for (int i = 0; i < tags.length && !haveValidTag; ++i) {
     if (tags[i].text().length() > 0) {
       haveValidTag = true;
     }
   }
   if (haveValidTag) {
     StringBuffer result = new StringBuffer();
     result.append("<dl>");
     for (int i = 0; i < tags.length; i++) {
       if (tags[i].text().length() > 0) {
         result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
        }
     }
     result.append("</dl>");
     return result.toString();
```

```
else {
      return null;
     }
   }
 }
1f+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
ConstantValue copyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverview inPackageinTypeisInlineTagregister(Ljava/util/Map;)V
&(*)
java/util/Map+,put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
tagletMapLjava/util/Map;copyrightTaglettoString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Ta
506*([Lcom/sun/javadoc/Tag;)Ljava/lang/String;tagLcom/sun/javadoc/Tag;2:;text
=?>java/lang/String@Alength()ICjava/lang/StringBuffer
BF<dl>
BHIJappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN<dt><i>Copyright &#169;
KPQ(Ljava/lang/String;)V
KSIT-(Ljava/lang/String;)Ljava/lang/StringBuilder;V </i>
KX0Z</dl>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!
/*1-
7,;,?,C,G,K,O!,S "#QY$L*+%+'WWXY-.
/01A
*2Y+S4\
7806)+=>+29<=+_BYDN-EGW67+29<%-KYMO+29RURWGW+-YGW-[F`ad efge+k/l7m>nDoSpunstw>\] ^_
`a7TbcA>`ade
/* Permission.java -- The superclass for all permission objects
 Copyright (C) 1998, 2001, 2002, 2005 Free Software Foundation, Inc.
This file is part of GNU Classpath.
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it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2, or (at your option)
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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/\*\*

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

\*

- \* The most important method in this class is <code>implies</code>. This
- \* checks whether if one has this permission, then the specified
- \* permission is also implied. As a conceptual example, consider the
- \* permissions "Read All Files" and "Read File foo". The permission
- \* "Read All Files" implies that the caller has permission to read the

```
* file foo.
* <code>Permission</code>'s must be immutable - do not change their
* state after creation.
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
public abstract class Permission implements Guard, Serializable
/**
 * Compatible with JDK 1.1+.
private static final long serialVersionUID = -5636570222231596674L;
 * This is the name assigned to this permission object.
 * @serial the name of the permission
private String name;
 * Create an instance with the specified name.
 * @param name the permission name
public Permission(String name)
 this.name = name;
}
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
public void checkGuard(Object obj)
```

```
SecurityManager sm = System.getSecurityManager();
 if (sm != null)
  sm.checkPermission(this);
/**
* This method tests whether this <code>Permission</code> implies that the
* specified <code>Permission</code> is also granted.
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
public abstract boolean implies(Permission perm);
/**
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
* @param obj the object to compare to
public abstract boolean equals(Object obj);
/**
* This method returns a hash code for this <code>Permission</code>. It
* must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
* @return a hash value
public abstract int hashCode();
/**
* Get the name of this <code>Permission</code>.
* @return the name
public final String getName()
 return name;
}
* This method returns the list of actions for this <code>Permission</code>
* as a <code>String</code>. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read, write".
```

```
* @return the action list for this <code>Permission</code>
public abstract String getActions();
/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
public PermissionCollection newPermissionCollection()
 return null;
/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * @return this object as a <code>String</code>
public String toString()
 CPStringBuilder string = new CPStringBuilder();
 string = string.append('(');
 string = string.append(getClass().getName());
 string = string.append(' ');
 string = string.append(getName());
 if (!(getActions().equals("")))
    string = string.append(' ');
    string = string.append(getActions());
   }
 string = string.append(')');
 return string.toString();
} // class Permission
/* Permission.java -- Information about an ACL permission
 Copyright (C) 1998 Free Software Foundation, Inc.
```

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package java.security.acl;

```
* This interface provides information about a permission that can be

* granted. Note that this is <em>not</em> the same as the class

* <code>java.security.Permission</code>.

*

* @version 0.0

*

* @author Aaron M. Renn (arenn@urbanophile.com)

*/

public interface Permission

{
```

```
***

* This method tests whether or not a specified <code>Permission</code>

* (passed as an <code>Object</code>) is the same as this permission.

* @param perm The permission to check for equality

* @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise

*/
boolean equals (Object perm);

/**

* This method returns this <code>Permission</code> as a <code>String</code>.

* @return A <code>String</code> representing this permission.

*/
String toString();
}
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```

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```
// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-
#ifndef __java_security_Permission__
#define __java_security_Permission__
#pragma interface
#include <java/lang/Object.h>
extern "Java"
namespace java
  namespace security
    class Permission:
    class PermissionCollection;
  }
}
}
class java::security::Permission : public ::java::lang::Object
{
public:
Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
static ::java::lang::Class class$;
};
#endif // __java_security_Permission__
// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-
#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__
```

```
#include <java/lang/Object.h>
extern "Java"
namespace java
 namespace security
   namespace acl
     class Permission;
   }
  }
}
}
class java::security::acl::Permission : public ::java::lang::Object
{
public:
virtual jboolean equals(::java::lang::Object *) = 0;
virtual ::java::lang::String * toString() = 0;
static ::java::lang::Class class$;
} __attribute__ ((java_interface));
#endif // __java_security_acl_Permission__
Boost Software License - Version 1.0 - August 17th, 2003
```

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```
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along with GCC; see the file COPYING3. If not see
<a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>. */
/* Use the Sequent Symmetry assembler syntax. */
/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using
 underscores, we are using prefix `.'s to identify labels that should
 be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
#define LPREFIX "L"
/* Assembler pseudos to introduce constants of various size. */
#define ASM BYTE "\t.byte\t"
#define ASM SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
/* This was suggested, but it shouldn't be right for DBX output. -- RMS
 #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */
/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line
 that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))
/* Define the syntax of labels and symbol definitions/declarations. */
/* This says how to output an assembler line
 to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
```

```
(fputs (".comm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
/* This says how to output an assembler line
 to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
(fputs (".lcomm ", (FILE)), \
assemble name ((FILE), (NAME)), \
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
#ifdef HAVE GAS LCOMM WITH ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
(fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif
/* This is how to output an assembler line
 that says to advance the location counter
 to a multiple of 2**LOG bytes. */
#define ASM OUTPUT ALIGN(FILE,LOG) \
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))
/* This is how to store into the string BUF
 the symbol_ref name of an internal numbered label where
 PREFIX is the class of label and NUM is the number within the class.
 This is suitable for output with `assemble name'. */
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
 sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))
/* The prefix to add to user-visible assembler symbols. */
#define USER LABEL PREFIX " "
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1
/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
.\" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
.\"
.\" Standard preamble:
.de Sp \" Vertical space (when we can't use .PP)
```

```
.if t .sp .5v
.if n .sp
.de Vb \" Begin verbatim text
.ft CW
.nf
.ne \\$1
.de Ve \" End verbatim text
.ft R
.fi
.\" Set up some character translations and predefined strings. \*(-- will
.\" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
.\" double quote, and \*(R" will give a right double quote. \*(C+ will
.\" give a nicer C++. Capital omega is used to do unbreakable dashes and
.\" therefore won't be available. \*(C) and \*(C') expand to \' in nroff,
.\" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-.1v'\h'-1p'\s-2+\h'-1p'+\s0\v'.1v'\h'-1p'
. ds -- \(*W-
. ds PI pi
  if (\n(.H=4u)\&(1m=24u) .ds -- \(*W\h'-12u'\(*W\h'-12u'-\'' diablo 10 pitch))
  if (\n(.H=4u)\&(1m=20u) .ds -- \(*W\h'-12u'\(*W\h'-8u'-\'' diablo 12 pitch )
  ds L" ""
  ds R" ""
. ds C` ""
. ds C' ""
br
.el \ \
. ds -- \|\(em\|
  ds PI \(*p
  ds L" ``
  ds R" "
  ds C`
 ds C'
br
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(aq
      .ds Aq '
.el
.\"
.\" If the F register is >0, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD. Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.\"
```

```
.\" Avoid warning from groff about undefined register 'F'.
.de IX
.if !\nF .nr F 0
.if \nF>0 \{
. de IX
   tm Index:\\1\t\n\%\t''\2"
  if !\nF==2 \{
      nr % 0
      nr F 2
. \}
.\}
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
. \ '" fudge factors for nroff and troff
.if n \setminus \{ \setminus
. ds #H 0
. ds #V .8m
. ds #F .3m
. ds #[ \f1
. ds #] \fP
.\}
.if t \setminus \{
. ds \#H ((1u-()\n(.fu\%2u))*.13m)
. ds #V .6m
. ds #F 0
. ds #[\&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n \setminus \{
. ds'\&
. ds`\&
. ds ^ \&
. ds,\&
. ds ~ ~
  ds /
.\}
.if t \setminus \{
. ds ' \\k:\h'-(\\n(.wu*8/10-\*(#H)\\\h"|\\n:u"
. ds \h'-(\n(.wu*8/10-\(#H)'\\h'|\n:u'
  ds \wedge \langle k: h'-(\langle u^*10/11-\rangle (\#H)'^h' | \n:u'
  ds, \\k:\h'-(\\n(.wu*8/10)',\h'|\\n:u'
. ds \sim \k:\h'-(\n(.wu-\*(\#H-.1m)'\sim\h'|\n:u'
  ds / \k:\h'-(\n(.wu*8/10-\*(\#H)'\z\(sl\h'|\n:u'))
.\}
```

```
. \" troff and (daisy-wheel) nroff accents
.ds: \\ \h'-(\\ \n(.wu*8/10-\\ \mathbb{'}(\#H+.1m+\\ \mathbb{'}(\#F)\\ \n'-\\ \mathbb{'}(\#V'\-\\ \mathbb{'}(\#V'\-\\ \mathbb{'}(\#F'.\\ \mathbb{'})\\ \mathbb{'}(\mathbb{'}) \mathbb{'}(\#V'\-\\ \mathbb{'}(\#V'\-\\ \mathbb{'}) \mathbb{'}(\#F'.\\ \mathbb{'}) \mathbb{'}(\mathbb{'}) \mathbb{'}(\ma
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.ds o \\k:\h'-(\\n(.wu+\w'\\(de'u-\*(#H)/2u'\v'-.3n'\*(#[\z\\(de\v'.3n'\h'|\\n:u'\*(#])
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                 Everyone is permitted to copy and distribute verbatim copies of this
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.SS "Preamble"

.IX Subsection "Preamble"

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.PP

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.PP

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.PP

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.PP

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For the developers' and authors' protection, the \s-1GPL\s0 clearly explains that there is no warranty for this free software. For both users' and authors' sake, the \s-1GPL\s0 requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

.PP

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 \s-1GPL\s0 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 \s-1GPL\s0 as needed to protect the freedom of users.

.PP

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 \s-1GPL\s0 assures that patents cannot be used to render the program non-free.

.PP

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

.SS "\s-1TERMS AND CONDITIONS\s0"

.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

 $\label{linear_constraints} $$ \end{array} $$ \end{array} $$ (L"This License)^*(R" refers to version 3 of the \s-1GNU\s0 General Public License.$ 

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\&\\*(L"Copyright\\*(R" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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A  $\$  (L"covered work $\$  (R" means either the unmodified Program or a work based on the Program.

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To \\*(L"propagate\\*(R" 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.

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

conveying.

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An interactive user interface displays \\*(L"Appropriate Legal Notices\\*(R" 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.

.IP "1. Source Code." 4

.IX Item "1. Source Code."

The  $\*(L"source code)\*(R" for a work means the preferred form of the work for making modifications to it. <math>\*(L"Object code)\*(R" means any non-source form of a work.$ 

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A \\*(L"Standard Interface\\*(R" 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.

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The \\*(L"System Libraries\\*(R" 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 \&\\*(L"Major Component\\*(R", 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 \\*(L"Corresponding Source\\*(R" 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.

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

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

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.IX Item "2. Basic Permissions."

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.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4
.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."
No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the \s-1WIPO\s0 copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

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.IP "4. Conveying Verbatim Copies." 4

.IX Item "4. Conveying Verbatim Copies."

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

keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

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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.

.IP "5. Conveying Modified Source Versions." 4

.IX Item "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:

.RS 4

.IP "a." 4

.IX Item "a."

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

.IP "b." 4

.IX Item "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  $\t^*(L"keep intact all notices)^*(R".$ 

.IP "c." 4

.IX Item "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.

.IP "d." 4

.IX Item "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.

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.RS 4

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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 \&\\*(L"aggregate\\*(R" 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.

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.IP "6. Conveying Non-Source Forms." 4

.IX Item "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:

.RS 4

.IP "a." 4

.IX Item "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.

.IP "b." 4

.IX Item "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. IP "c." 4

.IX Item "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.

.IP "d." 4

.IX Item "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.

.IP "e." 4

.IX Item "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.

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

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\&\\*(L"Installation Information\\*(R" 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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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in \s-1ROM\s0).

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or

updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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

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.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

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.RS 4

.IP "a." 4

.IX Item "a."

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.IP "b." 4

.IX Item "b."

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.IP "c." 4

.IX Item "c."

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.IX Item "d."

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.IX Item "e."

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.IX Item "f."

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.IX Item "8. Termination."

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.IP "11. Patents." 4

.IX Item "11. Patents."

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.IX Item "12. No Surrender of Others' Freedom."

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.IP "14. Revised Versions of this License." 4

.IX Item "14. Revised Versions of this License."

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.IP "15. Disclaimer of Warranty." 4

.IX Item "15. Disclaimer of Warranty."

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.IP "16. Limitation of Liability." 4

.IX Item "16. Limitation of Liability."

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. IP "17. Interpretation of Sections 15 and 16."  $\boldsymbol{4}$ 

.IX Item "17. Interpretation of Sections 15 and 16."

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@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

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@c man end

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## @item

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@var{one line to give the program's name and a brief idea of what it does.}
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You should have received a copy of the GNU General Public License along with this program. If not, see @url{http://www.gnu.org/licenses/}. @end smallexample

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

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

## @smallexample

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

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

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

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## HISTORY -

README.changes.

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

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

## Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

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

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

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

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)

```
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave 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.)
#!/usr/bin/python
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
# This script 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 3, or (at your option)
# any later version.
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
# Copyright XXXX-YYYY Free Software Foundation, Inc.
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
# Pass --this-year to the script if you want it to add the current year
```

```
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
   update-copyright.pl --this-year
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
   update-copyright.pl --this-year libjava
# would run the script on just libjava/.
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.
import os
import re
import sys
import time
import subprocess
class Errors:
 def __init__ (self):
    self.num\_errors = 0
 def report (self, filename, string):
    if filename:
       string = filename + ': ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1
 def ok (self):
    return self.num_errors == 0
class GenericFilter:
 def __init__ (self):
    self.skip_files = set()
    self.skip_dirs = set()
    self.skip_extensions = set()
    self.fossilised_files = set()
    self.own_files = set()
    self.skip_files |= set ([
```

```
# Skip licence files.
        'COPYING',
        'COPYING.LIB',
       'COPYING3',
        'COPYING3.LIB',
       'LICENSE',
       'fdl.texi',
        'gpl_v3.texi',
       'fdl-1.3.xml',
        'gpl-3.0.xml',
       # Skip auto- and libtool-related files
       'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'depcomp',
        'install-sh',
       'libtool.m4',
       'Itmain.sh',
        'ltoptions.m4',
       'ltsugar.m4',
       'ltversion.m4',
        'lt~obsolete.m4',
       'missing',
       'mkdep',
        'mkinstalldirs',
       'move-if-change',
       'shlibpath.m4',
        'symlink-tree',
        'ylwrap',
       # Skip FSF mission statement, etc.
        'gnu.texi',
       'funding.texi',
        'appendix_free.xml',
       # Skip imported texinfo files.
       'texinfo.tex',
       ])
def get_line_filter (self, dir, filename):
  if filename.startswith ('ChangeLog'):
     # Ignore references to copyright in changelog entries.
     return re.compile ('\t')
  return None
```

```
def skip_file (self, dir, filename):
    if filename in self.skip_files:
       return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
       return True
    if extension == '.in':
       # Skip .in files produced by automake.
       if os.path.exists (base + '.am'):
         return True
      # Skip files produced by autogen
       if (os.path.exists (base + '.def')
         and os.path.exists (base + '.tpl')):
         return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
       if os.path.exists (base + '.ac'):
         return True
       if os.path.exists (base + '.in'):
         return True
    return False
 def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs
 def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised files:
       return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
       return True
    return False
 def by_package_author (self, dir, filename):
    return filename in self.own_files
class Copyright:
 def __init__ (self, errors):
    self.errors = errors
    # Characters in a range of years. Include '.' for typos.
    ranges = [0-9](?:[-0-9.,\s]|\s+and\s+)*[0-9]'
```

```
# Non-whitespace characters in a copyright holder's name.
name = '[\w.,-]'
# Matches one year.
self.year\_re = re.compile ('[0-9]+')
# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)
# Matches a full copyright notice:
self.copyright_re = re.compile (
  #1: 'Copyright (C)', etc.
  '([Cc]opyright'
  '|[Cc]opyright\s+\([Cc]\)'
  '|[Cc]opyright\s+%s'
  '|[Cc]opyright\s+©'
  '|[Cc]opyright\s+@copyright{}'
  '|copyright = u \cap "
  |@set\s+copyright[\w-]+|
  # 2: the years. Include the whitespace in the year, so that
  # we can remove any excess.
  (\s^*(?:' + ranges + ',?')
  '|@value\{[^{}]*\})\s*)'
  # 3: 'by ', if used
  '(by\s+)?'
  # 4: the copyright holder. Don't allow multiple consecutive
  # spaces, so that right-margin gloss doesn't get caught
  # (e.g. gnat_ugn.texi).
  ('+name + (?:\s?' + name + ')*)?')
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                        re.IGNORECASE)
self.comment\_re = re.compile('#+|[*]+|;+|%+|//+|@c|dnl')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()
# True to 'quilt add' files before changing them.
self.use\_quilt = False
# If set, force all notices to include this year.
self.max\_year = None
```

```
# Goes after the year(s). Could be ', '.
  self.separator = ' '
def add_package_author (self, holder, canon_form = None):
  if not canon_form:
     canon form = holder
  self.holders[holder] = canon_form
  index = holder.find (' ')
  while index \geq 0:
     self.holder_prefixes.add (holder[:index])
     index = holder.find ('', index + 1)
def add_external_author (self, holder):
  self.holders[holder] = None
class BadYear():
  def __init__ (self, year):
     self.year = year
  def __str__ (self):
     return 'unrecognised year: ' + self.year
def parse_year (self, string):
  year = int (string)
  if len (string) == 2:
     if year > 70:
       return year + 1900
  elif len (string) == 4:
     return year
  raise self.BadYear (string)
def year_range (self, years):
  year_list = [self.parse_year (year)
           for year in self.year_re.findall (years)]
  assert len (year_list) > 0
  return (min (year_list), max (year_list))
def set_use_quilt (self, use_quilt):
  self.use_quilt = use_quilt
def include_year (self, year):
  assert not self.max_year
  self.max\_year = year
def canonicalise_years (self, dir, filename, filter, years):
  # Leave texinfo variables alone.
  if years.startswith ('@value'):
```

```
(min_year, max_year) = self.year_range (years)
  # Update the upper bound, if enabled.
  if self.max_year and not filter.is_fossilised_file (dir, filename):
     max_year = max (max_year, self.max_year)
  # Use a range.
  if min_year == max_year:
     return '%d' % min_year
  else:
     return '%d-%d' % (min_year, max_year)
def strip_continuation (self, line):
  line = line.lstrip()
  match = self.comment_re.match (line)
  if match:
     line = line[match.end():].lstrip()
  return line
def is_complete (self, match):
  holder = match.group (4)
  return (holder
       and (holder not in self.holder_prefixes
          or holder in self.holders))
def update_copyright (self, dir, filename, filter, file, line, match):
  orig line = line
  next_line = None
  pathname = os.path.join (dir, filename)
  intro = match.group (1)
  if intro.startswith ('@set'):
     # Texinfo year variables should always be on one line
     after_years = line[match.end (2):].strip()
     if after_years != ":
       self.errors.report (pathname,
                    'trailing characters in @set: '
                    + after_years)
       return (False, orig_line, next_line)
  else:
     # If it looks like the copyright is incomplete, add the next line.
     while not self.is_complete (match):
       try:
          next_line = file.next()
       except StopIteration:
          break
```

return years

```
# If the next line doesn't look like a proper continuation,
     # assume that what we've got is complete.
     continuation = self.strip_continuation (next_line)
     if not self.continuation_re.match (continuation):
       break
     # Merge the lines for matching purposes.
     orig_line += next_line
     line = line.rstrip() + ' ' + continuation
     next_line = None
     # Rematch with the longer line, at the original position.
     match = self.copyright_re.match (line, match.start())
     assert match
  holder = match.group (4)
  # Use the filter to test cases where markup is getting in the way.
  if filter.by_package_author (dir, filename):
     assert holder not in self.holders
  elif not holder:
     self.errors.report (pathname, 'missing copyright holder')
     return (False, orig_line, next_line)
  elif holder not in self.holders:
     self.errors.report (pathname,
                  'unrecognised copyright holder: ' + holder)
     return (False, orig_line, next_line)
  else:
     # See whether the copyright is associated with the package
     # author.
     canon_form = self.holders[holder]
     if not canon form:
       return (False, orig_line, next_line)
     # Make sure the author is given in a consistent way.
     line = (line[:match.start (4)]
          + canon_form
          + line[match.end (4):])
     # Remove any 'by'
     line = line[:match.start (3)] + line[match.end (3):]
# Update the copyright years.
years = match.group (2).strip()
```

```
try:
     canon_form = self.canonicalise_years (dir, filename, filter, years)
  except self.BadYear as e:
     self.errors.report (pathname, str (e))
     return (False, orig_line, next_line)
  line = (line[:match.start (2)]
        + (" if intro.startswith ('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end (2):])
  # Use the standard (C) form.
  if intro.endswith ('right'):
     intro += '(C)'
  elif intro.endswith ('(c)'):
     intro = intro[:-3] + '(C)'
  line = line[:match.start (1)] + intro + line[match.end (1):]
  # Strip trailing whitespace
  line = line.rstrip() + '\n'
  return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
  pathname = os.path.join (dir, filename)
  if filename.endswith ('.tmp'):
     # Looks like something we tried to create before.
     try:
        os.remove (pathname)
     except OSError:
        pass
     return
  lines = []
  changed = False
  line_filter = filter.get_line_filter (dir, filename)
  with open (pathname, 'r') as file:
     prev = None
     for line in file:
        while line:
          next_line = None
          # Leave filtered-out lines alone.
          if not (line_filter and line_filter.match (line)):
             match = self.copyright_re.search (line)
             if match:
                res = self.update_copyright (dir, filename, filter,
                                   file, line, match)
                (this_changed, line, next_line) = res
```

```
# Check for copyright lines that might have slipped by.
              elif self.other_copyright_re.search (line):
                 self.errors.report (pathname,
                              'unrecognised copyright: %s'
                              % line.strip())
            lines.append (line)
            line = next_line
    # If something changed, write the new file out.
    if changed and self.errors.ok():
       tmp_pathname = pathname + '.tmp'
       with open (tmp_pathname, 'w') as file:
         for line in lines:
            file.write (line)
       if self.use_quilt:
         subprocess.call (['quilt', 'add', pathname])
       os.rename (tmp_pathname, pathname)
 def process tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
       # Don't recurse through directories that should be skipped.
       for i in xrange (len (subdirs) - 1, -1, -1):
         if filter.skip_dir (dir, subdirs[i]):
            del subdirs[i]
       # Handle the files in this directory.
       for filename in filenames:
         if filter.skip file (dir, filename):
            sys.stdout.write ('Skipping %s\n'
                       % os.path.join (dir, filename))
         else:
            self.process_file (dir, filename, filter)
class CmdLine:
 def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []
    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', "quilt add" files before changing them',
               self.o_quilt)
```

changed = changed or this\_changed

```
self.add_option ('--this-year', 'Add the current year to every notice',
             self.o_this_year)
def add_option (self, name, help, handler):
  self.option_help.append ((name, help))
  self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
  self.dirs.append ((dir, filter))
def o_help (self, option = None):
  sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
              'Options:\n' % sys.argv[0])
  format = '\%-15s \% s \ n'
  for (what, help) in self.option_help:
     sys.stdout.write (format % (what, help))
  sys.stdout.write ('\nDirectories:\n')
  format = '\%-25s'
  i = 0
  for (dir, filter) in self.dirs:
     i += 1
     if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '\n')
     else:
        sys.stdout.write (format % dir)
  sys.exit (0)
def o_quilt (self, option):
  self.copyright.set_use_quilt (True)
def o_this_year (self, option):
  self.copyright.include_year (time.localtime().tm_year)
def main (self):
  for arg in sys.argv[1:]:
     if arg[:1] != '-':
        self.chosen_dirs.append (arg)
     elif arg in self.option_handlers:
        self.option_handlers[arg] (arg)
        self.errors.report (None, 'unrecognised option: ' + arg)
  if self.errors.ok():
     if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
     if len (self.chosen_dirs) == 0:
        self.o_help()
     else:
```

```
for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, ")
            count = 0
            for (dir, filter) in self.dirs:
               if (dir + os.sep).startswith (canon_dir):
                 count += 1
                 self.copyright.process_tree (dir, filter)
            if count == 0:
               self.errors.report (None, 'unrecognised directory: '
                            + chosen dir)
    sys.exit (0 if self.errors.ok() else 1)
class TopLevelFilter (GenericFilter):
 def skip_dir (self, dir, subdir):
    return True
class ConfigFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
 def skip_file (self, dir, filename):
    if filename.endswith ('.m4'):
       pathname = os.path.join (dir, filename)
       with open (pathname) as file:
         # Skip files imported from gettext.
         if file.readline().find ('gettext-') >= 0:
            return True
    return GenericFilter.skip_file (self, dir, filename)
class GCCFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_files |= set ([
         # Not part of GCC
         'math-68881.h',
         ])
    self.skip_dirs |= set ([
         # Better not create a merge nightmare for the GNAT folks.
          'ada',
         # Handled separately.
         'testsuite',
         ])
```

```
self.skip_extensions |= set ([
         # Maintained by the translation project.
         '.po',
         # Automatically-generated.
         '.pot',
         ])
    self.fossilised_files |= set ([
         # Old news won't be updated.
         'ONEWS',
         ])
class TestsuiteFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_extensions |= set ([
         # Don't change the tests, which could be woend by anyone.
         '.c',
         '.C',
         '.cc',
         '.h',
         '.hs',
         '.f',
         '.f90',
         '.go',
         '.inc',
         '.java',
         ])
 def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
    return GenericFilter.skip_file (self, dir, filename)
class LibCppFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_extensions |= set ([
         # Maintained by the translation project.
         '.po',
         # Automatically-generated.
         '.pot',
```

```
])
class LibGCCFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Imported from GLIBC.
         'soft-fp',
         ])
class LibJavaFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Handled separately.
         'testsuite',
         # Not really part of the library
         'contrib',
         # Imported from upstream
         'classpath',
         'libltdl',
         ])
 def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
       return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
       return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)
class LibMudflapFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_dirs |= set ([
         # Handled separately.
         'testsuite',
         1)
class LibStdCxxFilter (GenericFilter):
 def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_files |= set ([
```

```
# Contains no copyright of its own, but quotes the GPL.
         'intro.xml'.
         1)
    self.skip_dirs |= set ([
         # Contains automatically-generated sources.
         'html',
         # The testsuite data files shouldn't be changed.
         'data'.
         # Contains imported images
         'images',
         ])
    self.own_files |= set ([
         # Contains markup around the copyright owner.
         'spine.xml',
         ])
 def get line filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
      return re.compile ('//\(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)
class GCCCopyright (Copyright):
 def __init__ (self, errors):
    Copyright.__init__ (self, errors)
    canon fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', canon_fsf)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
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    self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('Software Foundation, Inc.', canon_fsf)
    self.add_external_author ('ARM')
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    self.add_external_author ('Cavium Networks.')
    self.add_external_author ('Faraday Technology Corp.')
    self.add_external_author ('Florida State University')
    self.add_external_author ('Greg Colvin and Beman Dawes.')
    self.add_external_author ('Hewlett-Packard Company')
    self.add_external_author ('Information Technology Industry Council.')
```

```
self.add_external_author ('James Theiler, Brian Gough')
    self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
    self.add_external_author ('National Research Council of Canada.')
    self.add_external_author ('NVIDIA Corporation')
    self.add_external_author ('Peter Dimov and Multi Media Ltd.')
    self.add_external_author ('Peter Dimov')
    self.add external author ('Pipeline Associates, Inc.')
    self.add_external_author ('Regents of the University of California.')
    self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
    self.add external author ('Silicon Graphics')
    self.add_external_author ('Stephen L. Moshier')
    self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
    self.add external author ('The Go Authors. All rights reserved.')
    self.add_external_author ('The Go Authors. All rights reserved.')
    self.add_external_author ('The Go Authors.')
    self.add_external_author ('The Regents of the University of California.')
    self.add_external_author ('Unicode, Inc.')
    self.add external author ('University of Toronto.')
class GCCCmdLine (CmdLine):
 def init (self):
    CmdLine.__init__ (self, GCCCopyright)
    self.add_dir ('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir ('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir ('fixincludes')
    self.add_dir ('gcc', GCCFilter())
    self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir ('gnattools')
    self.add_dir ('include')
    self.add dir ('libada')
    self.add_dir ('libatomic')
    self.add_dir ('libbacktrace')
    self.add_dir ('libcpp', LibCppFilter())
    self.add_dir ('libdecnumber')
    # libffi is imported from upstream.
    self.add_dir ('libgcc', LibGCCFilter())
    self.add_dir ('libgfortran')
    self.add_dir ('libgomp')
    self.add_dir ('libiberty')
    self.add_dir ('libitm')
    self.add_dir ('libjava', LibJavaFilter())
    self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
    self.add_dir ('libmudflap', LibMudflapFilter())
    self.add_dir (os.path.join ('libmudflap', 'testsuite'),
             TestsuiteFilter())
```

```
self.add_dir ('libobjc')
   self.add_dir ('libquadmath')
   # libsanitiser is imported from upstream.
   self.add_dir ('libssp')
   self.add_dir ('libstdc++-v3', LibStdCxxFilter())
   self.add_dir ('libvtv')
   self.add dir ('lto-plugin')
   # zlib is imported from upstream.
   self.default dirs = [
      'gcc',
      'libada',
      'libatomic'.
      'libbacktrace',
      'libcpp',
      'libdecnumber',
      'libgcc',
      'libgfortran',
      'libgomp',
      'libitm',
      'libmudflap',
      'libobjc',
      'libstdc++-v3',
      1
GCCCmdLine().main()
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
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rel="next" href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
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align="center">Chapter1.Status<a accesskey="n"
href="bugs.html">Next</a><hr /></div><div class="section"><div
class="titlepage"><div><div><h2 class="title" style="clear: both"><a
id="manual.intro.status.license"></a>License</h2></div></div></div>
 There are two licenses affecting GNU libstdc++: one for the code,
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 There is a license section in the FAQ regarding common <a class="link"
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list</a>.
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id="manual.intro.status.license.gpl"></a>The Code: GPL</h3></div></div>
   The source code is distributed under the <a class="link" href="appendix_gpl.html" title="AppendixD. GNU
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bearsanoticeplacedbythecopyrightholderofthefilestatingthat<br/>br/>
thefileisgovernedbyGPLv3alongwiththisException.<br/>
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<br/>br />
"TargetCode"referstooutputfromanycompilerforarealorvirtual<br/>
targetprocessorarchitecture,inexecutableformorsuitablefor<br/>br/>
inputtoanassembler,loader,linkerand/orexecution<br/><br/>>
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phase.Notwithstandingthat,TargetCodedoesnotincludedatainany<br/>br/>
formatthatisusedasacompilerintermediaterepresentation,orused<br/>br/>
forproducingacompilerintermediaterepresentation.<br/>
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<br />
The "Compilation Process" transforms code entirely represented in <br/> />
non-intermediatelanguagesdesignedforhuman-writtencode,and/orin<br/>br />
JavaVirtualMachinebytecode,intoTargetCode.Thus,forexample,<br/>
useofsourcecodegeneratorsandpreprocessorsneednotbeconsidered<br/>br />
partoftheCompilationProcess,sincetheCompilationProcesscanbe<br/>br/>
understoodasstartingwiththeoutputofthegeneratorsor<br/>
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accesskey="n" href="bugs.html">Next</a><td width="40%" align="left"
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href="../index.html">Home</a><td width="40%" align="right"
valign="top">Bugs</div></body></html>
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 respects regarding verbatim copying of that document.
</simpara>
<bridgehead xml:id="fdl-1-section7" renderas="sect2">
 7. AGGREGATION WITH INDEPENDENT WORKS
</bridgehead>
<simpara>
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</simpara>
<br/>
<br/>
<br/>
deringehead xml:id="fdl-1-section8" renderas="sect2">

## 8. TRANSLATION

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

</simpara>

<simpara>

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

</simpara>

<bridgehead xml:id="fdl-1-section9" renderas="sect2">

## 9. TERMINATION

</bridgehead>

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<simpara>

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<simpara>

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</simpara>
<bridgehead xml:id="fdl-1-section11" renderas="sect2">
 11. RELICENSING
</bridgehead>
<simpara>
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 Site) means any World Wide Web server that publishes copyrightable
 works and also provides prominent facilities for anybody to edit those
 works. A public wiki that anybody can edit is an example of such a
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<simpara>
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</simpara>
</appendix>
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 <acronym>GNU</acronym> General Public License version 3
</title></info>
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 Version 3, 29 June 2007
</para>
<para>
 Copyright 2007 Free Software Foundation, Inc.
 <link xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.fsf.org/">http://www.fsf.org/</link>
</para>
<para>
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 Preamble
</bridgehead>
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<para>
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<para>

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<para>

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</para>

<para>

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</para>

<para>

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 <acronym>GPL</acronym>assures that patents cannot be used to render the program non-free.

</para>

<para>

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

</para>

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dgehead>

TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="gpl-3-definitions" renderas="sect1">

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0. Definitions.
</bridgehead>
<para>
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</para>
<para>
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</para>
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</para>
<para>
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 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.
</para>
<para>
 A covered work means either the unmodified Program or a work
 based on the Program.
</para>
<para>
 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
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 countries other activities as well.
</para>
<para>
 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.
</para>
<para>
 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
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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

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list meets this criterion.
</para>
<bri>dgehead xml:id="SourceCode" renderas="sect1">
 1. Source Code.
</bridgehead>
<para>
 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.

</para>

<para>

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.

</para>

<para>

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.

</para> <para>

> 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 works 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.

</para>

<para>

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

</para>

<para>

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

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</para>
<br/>
<br/
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</para>

<para>

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</para>

<bridgehead xml:id="Protecting" renderas="sect1">

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

</bridgehead>

<para>

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</para>

<para>

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</para>

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<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">
 4. Conveying Verbatim Copies.
</bridgehead>
<para>
 You may convey verbatim copies of the Programs source code as you
 receive it, in any medium, provided that you conspicuously and appropriately
 publish on each copy an appropriate copyright notice; keep intact all
 notices stating that this License and any non-permissive terms added in
 accord with section 7 apply to the code; keep intact all notices of the
 absence of any warranty; and give all recipients a copy of this License
 along with the Program.
</para>
<para>
 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.
</para>
<bridgehead xml:id="ConveyingModified" renderas="sect1">
 5. Conveying Modified Source Versions.
</bridgehead>
<para>
 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:
</para>
<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
 stitem>
  <para>
   The work must carry prominent notices stating that you modified it, and
   giving a relevant date.
  </para>
 </listitem>
 listitem>
  <para>
   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.
  </para>
 </listitem>
 stitem>
  <para>
   You must license the entire work, as a whole, under this License to
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   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
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separately received it.

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</para>
 </listitem>
 stitem>
  <para>
   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.
  </para>
 </listitem>
</orderedlist>
<para>
 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
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 or legal rights of the compilations 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.
</para>
<bri>dgehead xml:id="ConveyingNonSource" renderas="sect1">
 6. Conveying Non-Source Forms.
</bridgehead>
<para>
 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:
</para>
<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
 stitem>
  <para>
   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.
  </para>
 </listitem>
 listitem>
  <para>
   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
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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.

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</para>
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</listitem>

stitem>

<para>

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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</para>
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</listitem>

stitem>

<para>

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.

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</listitem>

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<para>

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.

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</para>
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</listitem>

</orderedlist>

<para>

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.

</para>

<para>

A User Product is either (1) a consumer product,

which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage.

For a particular product received by a particular user, normally used refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

</para>

<para>

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.

</para>

<para>

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

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<acronym>ROM</acronym>).
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</para>

<para>

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

</para>

<para>

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

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- <bridgehead xml:id="AdditionalTerms" renderas="sect1">
- 7. Additional Terms.
- </bridgehead>

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<para>
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</para> <para>
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<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

stitem>

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<para>

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</listitem>

listitem>

<para>

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 </listitem>
 stitem>
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 </listitem>
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  <para>
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 </listitem>
</orderedlist>
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</para>
<para>
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 that apply to those files, or a notice indicating where to find the
 applicable terms.
</para>
<para>
 Additional terms, permissive or non-permissive, may be stated in the form
of a separately written license, or stated as exceptions; the above
 requirements apply either way.
</para>
<bri>dgehead xml:id="gpl-3-termination" renderas="sect1">
 8. Termination.
</bridgehead>
<para>
```

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 and (b) permanently, if the copyright holder fails to notify you of the
  violation by some reasonable means prior to 60 days after the cessation.
</para>
<para>
  Moreover, your license from a particular copyright holder is reinstated
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  violation of this License (for any work) from that copyright holder, and
 you cure the violation prior to 30 days after your receipt of the notice.
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  material under section 10.
</para>
<bri>defined <a href="mailto:sect1" | Sect1" | Sect1
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<para>
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  Therefore, by modifying or propagating a covered work, you indicate your
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<bri>dgehead xml:id="AutomaticDownstream" renderas="sect1">
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<bridgehead xml:id="Patents" renderas="sect1">

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<bridgehead xml:id="NoSurrender" renderas="sect1">

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</para>

<bridgehead xml:id="RevisedVersions" renderas="sect1">

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<bridgehead xml:id="InterpretationSecs1516" renderas="sect1">
 17. Interpretation of Sections 15 and 16.
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<br/>
<br/>bridgehead>
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```

<bridgehead xml:id="HowToApply" renderas="sect1">

```
How to Apply These Terms to Your New Programs
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</para>
<para>
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 found.
</para>
<screen>
<re>line to give the programs name and a brief idea of what it does.</replaceable>
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xlink:href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</link>.
</screen>
<para>
 Also add information on how to contact you by electronic and paper mail.
</para>
<para>
 If the program does terminal interaction, make it output a short notice like
 this when it starts in an interactive mode:
</para>
<screen>
<replaceable>program</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable> name of
author</replaceable>
This program comes with ABSOLUTELY NO WARRANTY; for details type < literal>show w
This is free software, and you are welcome to redistribute it
under certain conditions; type < literal>show c</literal> for details.
</screen>
<para>
```

The hypothetical commands < literal> show w</literal> and

```
literal>show c</literal> should show the appropriate parts of
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 different; for a GUI interface, you would use an about box.
</para>
<para>
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xlink:href="http://www.gnu.org/philosophy/why-not-lgpl.html">http://www.gnu.org/philosophy/why-not-
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as the successor of the GNU Library Public License, version 2, hence the
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@end display
@appendixsubsec Preamble
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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.

@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

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#### @item

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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.)

@end enumerate

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# @item

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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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## @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

@item

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

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#### @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

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#### @enumerate a

#### @item

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#### @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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```
// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-
#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__
#pragma interface
#include <java/lang/Enum.h>
#include <gcj/array.h>
extern "Java"
{
    namespace gnu
{
        namespace javax
        {
             namespace sound
            {
                  class AudioSecurityManager$Permission;
            }
        }
}
```

class gnu::javax::sound::AudioSecurityManager\$Permission : public ::java::lang::Enum

```
AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
    private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
    public:
    static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
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```
package gnu.classpath.tools.taglets;
import java.util.Map;
import com.sun.tools.doclets.Taglet;
import com.sun.javadoc.Tag;

/**
   * A simple Taglet which handles Copyright information.
   */
public class CopyrightTaglet implements Taglet {
   private static final String NAME = "copyright";
   private static final String HEADER = "Copyright:";
   public String getName() {
     return NAME;
   }
   public boolean inField() {
     return true;
   }
}
```

```
public boolean inConstructor() {
 return true;
}
public boolean inMethod() {
 return true;
}
public boolean inOverview() {
 return true;
}
public boolean inPackage() {
 return true;
}
public boolean inType() {
 return true;
}
public boolean isInlineTag() {
 return false;
}
public static void register(Map tagletMap) {
 CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
 tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);\\
}
public String toString(Tag tag) {
 return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
 if (tags.length == 0) {
   return null;
 }
 else {
   boolean haveValidTag = false;
   for (int i = 0; i < tags.length && !haveValidTag; ++i) {
     if (tags[i].text().length() > 0) {
       haveValidTag = true;
     }
   }
   if (haveValidTag) {
     StringBuffer result = new StringBuffer();
     result.append("<dl>");
```

```
for (int i = 0; i < tags.length; i++) {
                  if (tags[i].text().length() > 0) {
                      result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
                  }
               }
              result.append("</dl>");
              return result.toString();
           }
          else {
              return null;
           }
      }
  }
}
1f+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
ConstantValue copyrightHEADER
Copyright:<init>()VCode
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`a7TbcA>`ade
/* Permission.java -- The superclass for all permission objects
  Copyright (C) 1998, 2001, 2002, 2005 Free Software Foundation, Inc.
```

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/\*\*

- \* This class is the abstract superclass of all classes that implement
- \* the concept of a permission. A permission consists of a permission name
- \* and optionally a list of actions that relate to the permission. The
- \* actual meaning of the name of the permission is defined only in the
- \* context of a subclass. It may name a resource to which access permissions
- \* are granted (for example, the name of a file) or it might represent
- \* something else entirely. Similarly, the action list only has meaning
- \* within the context of a subclass. Some permission names may have no

```
* actions associated with them. That is, you either have the permission
* or you don't.
* The most important method in this class is <code>implies</code>. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
* <code>Permission</code>'s must be immutable - do not change their
* state after creation.
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
public abstract class Permission implements Guard, Serializable
/**
 * Compatible with JDK 1.1+.
private static final long serialVersionUID = -5636570222231596674L;
/**
 * This is the name assigned to this permission object.
 * @serial the name of the permission
private String name;
/**
 * Create an instance with the specified name.
 * @param name the permission name
public Permission(String name)
 this.name = name;
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
```

\* argument. This method returns silently if the security check succeeds

```
* or throws an exception if it fails.
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
public void checkGuard(Object obj)
 SecurityManager sm = System.getSecurityManager();
 if (sm != null)
  sm.checkPermission(this);
}
/**
* This method tests whether this <code>Permission</code> implies that the
* specified <code>Permission</code> is also granted.
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
public abstract boolean implies(Permission perm);
/**
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
* @param obj the object to compare to
public abstract boolean equals(Object obj);
* This method returns a hash code for this <code>Permission</code>. It
* must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
* @return a hash value
public abstract int hashCode();
* Get the name of this <code>Permission</code>.
* @return the name
public final String getName()
 return name;
```

```
}
/**
* This method returns the list of actions for this <code>Permission</code>
* as a <code>String</code>. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read.write".
* @return the action list for this <code>Permission</code>
public abstract String getActions();
* This method returns an empty <code>PermissionCollection</code> object
* that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* <code>implies</code>.
* @return a new <code>PermissionCollection</code>
public PermissionCollection newPermissionCollection()
 return null;
}
/**
* This method returns a <code>String</code> representation of this
* <code>Permission</code> object. This is in the format:
* <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
* + ')'</code>.
* @return this object as a <code>String</code>
public String toString()
 CPStringBuilder string = new CPStringBuilder();
 string = string.append('(');
 string = string.append(getClass().getName());
 string = string.append(' ');
 string = string.append(getName());
 if (!(getActions().equals("")))
  {
   string = string.append(' ');
   string = string.append(getActions());
```

```
string = string.append(')');
return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
Copyright (C) 1998 Free Software Foundation, Inc.
```

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package java.security.acl;

/\*\*

<sup>\*</sup> This interface provides information about a permission that can be

<sup>\*</sup> granted. Note that this is <em>not</em> the same as the class

```
* <code>java.security.Permission</code>.
* @version 0.0
* @author Aaron M. Renn (arenn@urbanophile.com)
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * @param perm The permission to check for equality
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
boolean equals (Object perm);
/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
String toString();
}
// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-
#ifndef __java_security_Permission__
#define __java_security_Permission__
#pragma interface
#include <java/lang/Object.h>
extern "Java"
namespace java
 namespace security
  {
    class Permission;
    class PermissionCollection;
  }
}
}
class java::security::Permission : public ::java::lang::Object
```

```
public:
Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};
#endif // __java_security_Permission__
// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-
#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__
#pragma interface
#include <java/lang/Object.h>
extern "Java"
namespace java
  namespace security
  {
   namespace acl
     class Permission;
  }
class java::security::acl::Permission : public ::java::lang::Object
{
public:
virtual jboolean equals(::java::lang::Object *) = 0;
virtual ::java::lang::String * toString() = 0;
```

```
static ::java::lang::Class class$;
} __attribute__ ((java_interface));
#endif // __java_security_acl_Permission__
```

### 1.26 make 4.2.1-r0

### 1.26.1 Available under license:

mini\_sendmail - accept email on behalf of real sendmail

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```
--- a/main.c
+++ b/main.c
@ @ -33,7 +33,7 @ @
#include "extern.h"
```

 $\hbox{\#define AGREEMENT "https://letsencrypt.org"} \setminus$ 

- "/documents/LE-SA-v1.1.1-August-1-2016.pdf"
- + "/documents/LE-SA-v1.2-November-15-2017.pdf"

#define SSL\_DIR "/etc/ssl/acme"

#define SSL\_PRIV\_DIR "/etc/ssl/acme/private"

#define ETC\_DIR "/etc/acme"

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```
OpenCL is a trademark of Apple Inc. used under license by Khronos.
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"
```

```
builddir="$srcdir/$_pkgreal-$pkgver"
prepare() {
default_prepare
cd "$builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
build() {
cd "$builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
make
}
check() {
cd "$builddir"
make test
package() {
cd "$builddir"
make DESTDIR="$pkgdir" install
find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fea16dc9262728b3b6b85 BSD-Resource-1.2911.tar.gz"
# Contributor: Fabian Affolter < fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter < fabian@affolter-engineering.ch>
pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver
build() {
cd "$builddir"
python3 setup.py build || return 1
```

```
}
package() {
cd "$builddir"
python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
md5sums="c6348990c6d74933bf5d5f6a55a14bdf flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73 flake8-copyright-
0.2.0.tar.gz"
2417b586e543bfba12abce256b2023c8c4993eeb90 flake8-copyright-0.2.0.tar.gz"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer:
pkgname=spdx-licenses
pkgver=3.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check"
license="unknown"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"
_types="html json rdfa rdfnt rdfturtle rdfxml template text"
for type in $_types; do
subpackages="$subpackages $pkgname-$type:_subpkg"
done
build() {
cd "$builddir"
}
package() {
mkdir -p "$pkgdir"
_subpkg() {
local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
install_if="$pkgname"
mkdir -p "$subpkgdir"/usr/share/spdx
cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}
```

```
list() {
pkgdesc="$pkgdesc (licence list)"
mkdir -p "$subpkgdir"/usr/share/spdx
local i; for i in $builddir/text/*.txt; do
local license=${i##*/}
 echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
done
}
28afa3c5f60272e96420cdd0ce38c96fec512996cda3 license-list-data-3.0.tar.gz"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0+"
depends=
makedepends=
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
builddir="$srcdir"/libart_lgpl-$pkgver
prepare() {
cd "$builddir"
update_config_sub
default_prepare
build() {
cd "$builddir"
./configure \
--build=CBUILD \setminus
 --host=$CHOST \
 --prefix=/usr
make
}
package() {
cd "$builddir"
make DESTDIR="$pkgdir" install
}
```

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7 6654309e001aee9bace727b5b4c8589405256a3c020 libart\_lgpl-2.3.21.tar.bz2"

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unconditionally use the provided realpath() as otherwise cross-builds would try to use musl realpath() which is posix compliant and not working to openssh expectations.

```
diff -ru openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h openssh-7.2p2/openbsd-compat/openbsd-compat.h
--- openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/openbsd-compat/openbsd-compat.h 2016-07-18 13:33:16.260357745 +0300
@@ -68,17 +68,7 @@
void *reallocarray(void *, size_t, size_t);
#endif
-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
- * glibc's FORTIFY SOURCE can redefine this and prevent us picking up the
- * compat version.
- */
-# ifdef BROKEN REALPATH
-# define realpath(x, y) _ssh_compat_realpath(x, y)
-# endif
-char *realpath(const char *path, char *resolved);
-#endif
+char *ssh_realpath(const char *path, char *resolved);
#ifndef HAVE RRESVPORT AF
int rresvport_af(int *alport, sa_family_t af);
diff -ru openssh-7.2p2.orig/openbsd-compat/realpath.c openssh-7.2p2/openbsd-compat/realpath.c
--- openssh-7.2p2.orig/openbsd-compat/realpath.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/openbsd-compat/realpath.c 2016-07-18 13:33:45.420721690 +0300
@@ -31,7 +31,7 @@
#include "includes.h"
-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
+#if 1
#include <sys/types.h>
#include <sys/param.h>
@@ -58,7 +58,7 @@
* in which case the path which caused trouble is left in (resolved).
*/
char *
-realpath(const char *path, char *resolved)
+ssh_realpath(const char *path, char *resolved)
{
struct stat sb;
char *p, *q, *s;
diff -ru openssh-7.2p2.orig/sftp-server.c openssh-7.2p2/sftp-server.c
--- openssh-7.2p2.orig/sftp-server.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/sftp-server.c 2016-07-18 13:34:29.131267241 +0300
@@ -1162,7 +1162,7 @@
```

}

```
debug3("request %u: realpath", id);
verbose("realpath \"%s\"", path);
- if (realpath(path, resolvedname) == NULL) {
+ if (ssh_realpath(path, resolvedname) == NULL) {
    send_status(id, errno_to_portable(errno));
} else {
    Stat s;
```

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## 1.30 musl 1.1.16:9

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# 1.36 py-crcmod 1.7-r0\_al3.6

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

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

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1.3 thru 1.5.2 1.2 1995-1999 CNRI yes							
1.6	5 1.	5.2 2	000	CNRI	no		
2.0	) 1.	6 20	000	ВеОре	en.com	no	
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2.1	2.	0+1.6.1	2001	PSF	no	)	
2.0	).1 2	.0+1.6.1	2001	PSI	F y	es	
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2.1	1.2 2	.1.1	2002	PSF	yes		
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Mersenne Twister

-----

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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init\_genrand(seed) or init\_by\_array(init\_key, key\_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

#### Sockets

-----

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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Floating point exception control

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Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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

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	from		co	mpatibl	e? (1)
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1.3 thru 1	.5.2 1.2	1995	5-1999 <b>C</b>	CNRI	yes
1.6	1.5.2	2000	CNRI	no	
2.0	1.6	2000	BeOpe	n.com 1	no
1.6.1	1.6	2001	CNRI	yes	(2)
2.1	2.0+1.6	5.1 2001	PSF	no	)
2.0.1	2.0+1.0	6.1 2001	l PSF	ye	es
2.1.1	2.1+2.0	0.1 2001	l PSF	ye	es
2.1.2	2.1.1	2002	PSF	yes	
2.1.3	2.1.2	2002	PSF	yes	
2.2 and al	oove 2.1	.1 20	01-now	PSF	yes

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1.6.1	1.6	2001	CNR	I   no	
2.1	2.0+1.6.1	1   200	1   PS	F   no	+
2.0.1	2.0+1.6.	1   200	)1   PS	SF   yes	
2.1.1	2.1+2.0.	1   200	)1   PS	SF   yes	
2.1.2	2.1.1	2002	PSF	yes	
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The :mod:`\_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init\_genrand(seed) or init\_by\_array(init\_key, key\_length).

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Any feedback is very welcome. http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space) \_\_\_\_\_

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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Floating point exception control

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#### MD5 message digest algorithm

-----

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# L. Peter Deutsch ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

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Execution tracing

-----

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UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion

between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.

- Arguments more compliant with Python standard

XML Remote Procedure Calls

\_\_\_\_\_

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test\_epoll

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strtod and dtoa

-----

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# 1.40 pywinrm 0.3.0

# 1.41 PyYAML 3.13

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## 1.46 urllib3 1.23

## 1.46.1 Available under license:

# Contributions to the urllib3 project

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#### ## Contributors

#### In chronological order:

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- \* HTTPS patch (which inspired HTTPSConnectionPool)
- \* erikcederstrand <a href="http://code.google.com/u/erikcederstrand/">http://code.google.com/u/erikcederstrand/</a>
- \* NTLM-authenticated HTTPSConnectionPool
- \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
- \* niphlod <niphlod@gmail.com>
- \* Client-verified SSL certificates for HTTPSConnectionPool
- \* Response gzip and deflate encoding support
- \* Better unicode support for filepost using StringIO buffers
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- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification

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- \* Various bugfixes and test improvements.
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- \* Fixed pickle support of some exceptions
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- \* Cory Benfield <a href="http://lukasa.co.uk/about/">http://lukasa.co.uk/about/</a>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
- \* Jason Robinson < jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
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- \* Fixed a race condition
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- \* Added HTTPS (CONNECT) proxy support
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
- \* Martin von Gagern < Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
- \* Danilo @dbrgn <a href="http://dbrgn.ch/">
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module

- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
- \* Josh Schneier <a href="https://github.com/jschneier">https://github.com/jschneier</a>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
- \* Tahia Khan <a href="http://tahia.tk/">http://tahia.tk/</a>
- \* Added Timeout examples in docs
- \* Arthur Grunseid <a href="http://grunseid.com">http://grunseid.com</a>
- \* source\_address support and tests (with https://github.com/bui)
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
- \* Aaron Meurer <asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
- \* Benjamen Meyer <br/> <br/> witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
- \* Shivan Sornarajah < github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
- \* tlynn <a href="https://github.com/tlynn">https://github.com/tlynn>
- \* Respect the warning preferences at import.

- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
- \* Jon Wayne Parrott <jonwayne@google.com>
- \* App Engine environment tests.
- \* John Krauss <a href="https://github.com/talos">https://github.com/talos</a>
- \* Clues to debugging problems with `cryptography` dependency in docs
- \* Disassem <a href="https://github.com/Disassem">https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
- \* James Atherfold < jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
- \* Christian Pedersen <a href="https://github.com/chripede">https://github.com/chripede</a>
- \* IPv6 HTTPS proxy bugfix
- \* Jordan Moldow <a href="https://github.com/jmoldow">https://github.com/jmoldow</a>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
- \* Predrag Gruevski <a href="https://github.com/obi1kenobi">https://github.com/obi1kenobi></a>
- \* Made cert digest comparison use a constant-time algorithm.
- \* Adam Talsma <a href="https://github.com/a-tal">https://github.com/a-tal</a>
- \* Bugfix to ca\_cert file paths.
- \* Evan Meagher <a href="https://evanmeagher.net">https://evanmeagher.net</a>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
- \* Jesse Shapiro < jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported

- \* David Foster <a href="http://dafoster.net/">http://dafoster.net/</a>
- \* Ensure order of request and response headers are preserved.
- \* Jeremy Cline < jeremy@jcline.org>
- \* Added connection pool keys by scheme
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status forcelist retries.
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
- \* Wolfgang Richter < wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
- \* Mike Miller < github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
- \* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>

- \* Ongoing maintenance
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
- \* Will Bond < will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- \* [Your name or handle] < [email or website]>
- \* [Brief summary of your changes]

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## 1.47 xmltodict 0.11.0

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## 1.48 zlib 1.2.11-r0

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## 1.49 zlib 1.2.11:0

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