



Open Source Used In Meeting Server 2.8

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<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
```

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu(hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson(brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen(Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard(beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz(schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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1.4 bridge-utils 1.5

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.6 bzip2 1.0.8

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.7 cairo 1.14.2

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1.9 cairo/cairo-trace-gplv3-part 1.14.2

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1.12 cryptsetup 1.6.0

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1.13 curl-7.62.0 7.62.0

1.13.1 Available under license :

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=====

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

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1.14 db 4.4.20

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1.15 dhcp 4.1-ESV-R9

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1.16 dhcpd 6.10.3

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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1.19 e2fsprogs 1.43.7

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Theodore Ts'o
23-June-2007

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```

```
<signature of Ty Coon>, 1 April 1989
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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

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```

#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```


/*

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*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes

-

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1.20 ethtool 3.2

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
 - ``libavcodec/x86/flac_dsp_gpl.asm``

- `libavcodec/x86/idct_mmx.c`
- `libavfilter/x86/vf_removegrain.asm`
- the X11 grabber in `libavdevice/x11grab.c`
- the following building and testing tools
 - `compat/solaris/make_sunver.pl`
 - `doc/t2h.pm`
 - `doc/txi2pod.pl`
 - `libswresample/swresample-test.c`
 - `tests/checkasm/*`
 - `tests/tiny_ssim.c`
- the following filters in libavfilter:
 - `f_ebur128.c`
 - `vf_blackframe.c`
 - `vf_boxblur.c`
 - `vf_colormatrix.c`
 - `vf_cover_rect.c`
 - `vf_cropdetect.c`
 - `vf_delogo.c`
 - `vf_eq.c`
 - `vf_find_rect.c`
 - `vf_fspp.c`
 - `vf_geq.c`
 - `vf_histeq.c`
 - `vf_hqdn3d.c`
 - `vf_interlace.c`
 - `vf_kerndeint.c`
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 - `vf_mpdecimate.c`
 - `vf_owdenoise.c`
 - `vf_perspective.c`
 - `vf_phase.c`
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 - `vf_pullup.c`
 - `vf_repeatfields.c`
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 - `vf_smartblur.c`
 - `vf_spp.c`
 - `vf_stereo3d.c`
 - `vf_super2xsai.c`
 - `vf_tinterlace.c`
 - `vf_uspp.c`
 - `vsrc_mptestsrc.c`

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There are a handful of files under other licensing terms, namely:

- * The files ``libavcodec/jfdctfst.c``, ``libavcodec/jfdctint_template.c`` and ``libavcodec/jrevdct.c`` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
- * ``tests/reference.pnm`` is under the expat license.

External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

Compatible libraries

The following libraries are under GPL:

- frei0r
- libcdio
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing ``--enable-gpl`` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing ``--enable-version3`` to configure.

Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass ``--enable-nonfree`` to configure. But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these restrictions cause the resulting binary to be unredistributable.

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```
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Upstream-Name: FFmpeg

Upstream-Contact: ffmpeg-devel@ffmpeg.org

Source: <https://ffmpeg.org>

Comment:

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libavcodec/mips/acelp_filters_mips.c
libavcodec/mips/acelp_vectors_mips.c
libavcodec/mips/amrwbdec_mips.c
libavcodec/mips/amrwbdec_mips.h
libavcodec/mips/celp_filters_mips.c
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libavcodec/mips/fft_mips.c
libavcodec/mips/fmtconvert_mips.c
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libavcodec/mips/lsp_mips.h
libavcodec/mips/mpegauddsp_mips_fixed.c
libavcodec/mips/mpegauddsp_mips_float.c
libavcodec/mips/sbrdsp_mips.c
libavutil/fixed_dsp.c
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Files:

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libavcodec/libfdk-aacdec.c

libavcodec/libfdk-aacenc.c

libavcodec/zerocodec.c

libavdevice/openal-dec.c

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* bdf.c

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*/

/*

*/

/* ftgzip.c

*/

/*

*/

/* FreeType support for .gz compressed files.

*/

/*

*/

/* This optional component relies on zlib. It should mainly be used to */

/* parse compressed PCF fonts, as found with many X11 server */

/* distributions. */

*/

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/*

/* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.1.4, March 11th, 2002

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Jean-loup Gailly Mark Adler
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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#~ "License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>.\n"
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```

```
#~ "\n"
#~ msgstr ""
#~ "\n"
#~ "&#12521;&#12452;&#12475;&#12531;&#12473; GPLv3+: GNU GPL version 3 or later
<http://gnu.org/licenses/gpl.html>.\n"
#~ "This is free software: you are free to change and redistribute it.\n"
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/*

* mediafmt.cxx

*

* Media Format descriptions

*

* H323Plus Library

*

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* \$Id: mediafmt.cxx,v 1.19 2014/03/09 07:53:09 shorne Exp \$

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/*

* h323filetransfer.cxx

*

* H323 File Transfer class.

*

* h323plus library

*

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```
# Please send patches to <config-patches@gnu.org>. Submit a context
# diff and a properly formatted ChangeLog entry.
#
# Configuration subroutine to validate and canonicalize a configuration type.
# Supply the specified configuration type as an argument.
# If it is invalid, we print an error message on stderr and exit with code 1.
# Otherwise, we print the canonical config type on stdout and succeed.
```

```
# This file is supposed to be the same for all GNU packages
# and recognize all the CPU types, system types and aliases
# that are meaningful with *any* GNU software.
# Each package is responsible for reporting which valid configurations
# it does not support. The user should be able to distinguish
# a failure to support a valid configuration from a meaningless
# configuration.
```

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

```
# install - install a program, script, or datafile
```

```
scriptversion=2003-09-24.23
```

```
# This originates from X11R5 (mit/util/scripts/install.sh), which was
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1.34 hdparm 9.38

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      This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
      -->
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<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
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href="/sitemap.html">Sitemap</a></p>
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</div>
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<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
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</div>
</div>
<div class="bottomlang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
</div><div class="top"><a href="#page-header"></a></div><div
class="section"><h2><a id="comments_section" name="comments_section">Comments</a></h2><div
class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be
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href="http://httpd.apache.org/lists.html">mailing lists</a>.</div>
<script type="text/javascript"><!--><![CDATA[</><!-->
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
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href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[</><!-->
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  prettyPrint();
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*/

```

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```
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```

For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*****/
*
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*
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```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

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1.38 iptables 1.4.20

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1.39 jpeg 8d

:b15539851b751df00f7a3527c5e81360

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README for release 8d of 15-Jan-2012

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=====

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OVERVIEW General description of JPEG and the IJG software.
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REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
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TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

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

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

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

OVERVIEW

=====

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

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

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

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

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

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

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REFERENCES

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

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

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

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

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

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

IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

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

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

A PostScript version of the JFIF document is available at

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

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

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

ARCHIVE LOCATIONS

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

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

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

=====

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Thank to Andrew Finkenstadt for hosting the ijg.org site.

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies.

IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

Furthermore, the ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

There are currently distributions in circulation containing the name "libjpeg" which claim to be a "derivative" or "fork" of the original libjpeg, but don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. Furthermore, they violate the license conditions as described under LEGAL ISSUES above.

We have no sympathy for the release of misleading and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

TO DO

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Version 8 is the first release of a new generation JPEG standard

to overcome the limitations of the original JPEG specification.

More features are being prepared for coming releases...

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

1.40 jq 1.4

1.40.1 Available under license :

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1.41 jQuery 1.12.1

1.42 json-c 0.12

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1.43 Idns 1.6.17

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

```
# install - install a program, script, or datafile
```

```
scriptversion=2009-04-28.21; # UTC
```

```
# This originates from X11R5 (mit/util/scripts/install.sh), which was
```

```
# later released in X11R6 (xc/config/util/install.sh) with the
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```

```
""" Easy DNS (including DNSSEC) via ldns.
```

ldns is a great library. It is a powerfull tool for working with DNS. python-ldns it is a straight up clone of the C interface, however that is not a very good interface for python. Its documentation is incomplete and some functions don't work as described. And some objects don't have a full python API.

ldnsx aims to fix this. It wraps around the ldns python bindings, working around its limitations and providing a well-documented, more pythonistic interface.

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```
/* From openssh 4.3p2 filename openbsd-compat/fake-rfc2553.h */
/*
```

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```

```
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```

```
*
```

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*/

/* From openssl4.3p2 compat/inet_aton.c */

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1.44 libarchive 3.3.3 :1.0

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1.45 libatomic_ops 1.2 :8.gc.1.el6

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

RC4 is a registered trademark of RSA Laboratories.

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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1.47 libcap 2.22

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1.50 LibEvent 2.1.8

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1.51 libiconv 1.14

1.51.1 Available under license :

GNU LIBICONV - character set conversion library

This library provides an iconv() implementation, for use on systems which don't have one, or whose implementation cannot convert from/to Unicode.

It provides support for the encodings:

European languages

ASCII, ISO-8859-{1,2,3,4,5,7,9,10,13,14,15,16},
KOI8-R, KOI8-U, KOI8-RU,
CP{1250,1251,1252,1253,1254,1257}, CP{850,866,1131},
Mac{Roman,CentralEurope,Iceland,Croatian,Romania},
Mac{Cyrillic,Ukraine,Greek,Turkish},
Macintosh

Semitic languages

ISO-8859-{6,8}, CP{1255,1256}, CP862, Mac{Hebrew,Arabic}

Japanese

EUC-JP, SHIFT_JIS, CP932, ISO-2022-JP, ISO-2022-JP-2, ISO-2022-JP-1

Chinese

EUC-CN, HZ, GBK, CP936, GB18030, EUC-TW, BIG5, CP950, BIG5-HKSCS,
BIG5-HKSCS:2004, BIG5-HKSCS:2001, BIG5-HKSCS:1999, ISO-2022-CN,
ISO-2022-CN-EXT

Korean

EUC-KR, CP949, ISO-2022-KR, JOHAB

Armenian

ARMSCII-8

Georgian

Georgian-Academy, Georgian-PS

Tajik

KOI8-T

Kazakh

PT154, RK1048

Thai

ISO-8859-11, TIS-620, CP874, MacThai

Laotian

MuleLao-1, CP1133

Vietnamese

VISCII, TCVN, CP1258

Platform specifics

HP-ROMAN8, NEXTSTEP

Full Unicode

UTF-8
UCS-2, UCS-2BE, UCS-2LE
UCS-4, UCS-4BE, UCS-4LE

UTF-16, UTF-16BE, UTF-16LE

UTF-32, UTF-32BE, UTF-32LE

UTF-7

C99, JAVA

Full Unicode, in terms of 'uint16_t' or 'uint32_t'

(with machine dependent endianness and alignment)

UCS-2-INTERNAL, UCS-4-INTERNAL

Locale dependent, in terms of 'char' or 'wchar_t'

(with machine dependent endianness and alignment, and with OS and locale dependent semantics)

char, wchar_t

The empty encoding name "" is equivalent to "char": it denotes the locale dependent character encoding.

When configured with the option `--enable-extra-encodings`, it also provides support for a few extra encodings:

European languages

CP{437,737,775,852,853,855,857,858,860,861,863,865,869,1125}

Semitic languages

CP864

Japanese

EUC-JISX0213, Shift_JISX0213, ISO-2022-JP-3

Chinese

BIG5-2003 (experimental)

Turkmen

TDS565

Platform specifics

ATARIST, RISCOS-LATIN1

It can convert from any of these encodings to any other, through Unicode conversion.

It has also some limited support for transliteration, i.e. when a character cannot be represented in the target character set, it can be approximated through one or several similarly looking characters. Transliteration is activated when `//TRANSLIT` is appended to the target encoding name.

`libiconv` is for you if your application needs to support multiple character encodings, but that support lacks from your system.

Installation

As usual for GNU packages:

```
$ ./configure --prefix=/usr/local
```

```
$ make
$ make install
```

After installing GNU libiconv for the first time, it is recommended to recompile and reinstall GNU gettext, so that it can take advantage of libiconv.

On systems other than GNU/Linux, the iconv program will be internationalized only if GNU gettext has been built and installed before GNU libiconv. This means that the first time GNU libiconv is installed, we have a circular dependency between the GNU libiconv and GNU gettext packages, which can be resolved by building and installing either

- first libiconv, then gettext, then libiconv again,
- or (on systems supporting shared libraries, excluding AIX)
- first gettext, then libiconv, then gettext again.

Recall that before building a package for the second time, you need to erase the traces of the first build by running "make distclean".

This library can be built and installed in two variants:

- The library mode. This works on all systems, and uses a library 'libiconv.so' and a header file '<iconv.h>'. (Both are installed through "make install".)

To use it, simply #include <iconv.h> and use the functions.

To use it in an autoconfiguring package:

- If you don't use automake, append m4/iconv.m4 to your aclocal.m4 file.
- If you do use automake, add m4/iconv.m4 to your m4 macro repository.
- Add to the link command line of libraries and executables that use the functions the placeholder @LIBICONV@ (or, if using libtool for the link, @LTLIBICONV@). If you use automake, the right place for these additions are the *_LDADD variables.

Note that 'iconv.m4' is also part of the GNU gettext package, which installs it in /usr/local/share/aclocal/iconv.m4.

- The libc plug/override mode. This works on GNU/Linux, Solaris and OSF/1 systems only. It is a way to get good iconv support without having glibc-2.1.

It installs a library 'preloadable_libiconv.so'. This library can be used with LD_PRELOAD, to override the iconv* functions present in the C library.

On GNU/Linux and Solaris:

```
$ export LD_PRELOAD=/usr/local/lib/preloadable_libiconv.so
```

On OSF/1:

```
$ export _RLD_LIST=/usr/local/lib/preloadable_libiconv.so:DEFAULT
```

A program's source need not be modified, the program need not even be recompiled. Just set the LD_PRELOAD environment variable, that's it!

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Download

<http://ftp.gnu.org/gnu/libiconv/libiconv-1.14.tar.gz>

Homepage

<http://www.gnu.org/software/libiconv/>

Bug reports to

<bug-gnu-libiconv@gnu.org>

Bruno Haible <bruno@clisp.org>

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Version 3, 29 June 2007

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1.58 linux 3.10.10

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
```

```

* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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{
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        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
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}

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```

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Ralph Metzler <rjkm@metzlerbros.de>
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Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacompt.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for his LIRC infrared handler

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for the nxt2004 frontend driver

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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Version 1.0

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1.59 linux kernel 4.4.182

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ConferenceTV card

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(in case you are wondering where CyberLogin is, EON changed its login
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for the or51211 and or51132 frontend drivers, and
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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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```

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*

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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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

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```
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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
```

* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
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```
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{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
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}

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

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for the nxt2002 frontend driver

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for the nxt2004 frontend driver

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

(If you think you should be in this list, but you are not, drop a
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ConferenceTV card

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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```

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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
```

```

*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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|| strcmp(license, "GPL and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
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```
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1.61 linux-pam_GPLv2 1.1.5

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1.62 Im-sensors 3.3.1 :2ubuntu1

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That's all there is to it!

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

* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

* Merlin Hughes

Original author of sensord.

* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

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1.63 logcabin 1.1.0

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Name: LogCabin logo colors

#

0 0 0 # 000000 black

255 255 255 # ffffff white

97 140 62 # 618c3e light green

36 96 2 # 246002 dark green

133 87 36 # 855724 brown

75 49 20 # 4b3114 dark brown

41 31 21 # 291f15 black brown

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1.64 Isof 4.85

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```
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 * print.c - common print support functions for Isof
 */

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 */
/*
 * regex.h -- regular expression definitions for Isof
 *
 * This header file is used only when the dialect has no POSIX-conformant
 * regular expression function set. When that is the case, the dialect's
 * machine.h will define USE_LIB_REGEX.
 *
 * When the dialect has a POSIX-conformant regular expression function set,
```

```
* USE_LIB_REGEX is not defined and this header file #include's <regex.h>.
*
* V. Abell <abe@purdue.edu>
* Purdue University
*/

/*
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*/
#ifdef USE_LIB_REGEX
/*
* This section comes from GLIBC 2.2. It is used only when the dialect
* has no POSIX-conformant regular expression function set. When that is
* the case, the dialect's machine.h will define USE_LIB_REGEX.
*/

/* Definitions for data structures and routines for the regular
expression library, version 0.12.
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```
#!/usr/bin/perl
# sort_res.perl5 - Script to group & sort lsof output by resource
#
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#
# Note :
# -This script uses lsof released by Victor A. Abell
# -lsof path recovery comes from standard perl scripts in there.
#
# Usage :
# perl sort_res.perl5 -> display used resources + size
# or perl sort_res.perl5 <program name>
#
# 12/2005 (FabF)
# -size reset in loop (script was broken in 4.76)
# -isexec looking in .. (like other scripts)
```

-display for one or all processes
-removing unuseful line number arg.
-display global size

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1.65 lua 5.1.4

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## 1.70 lvm2 2.02.79

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Version 3, 29 June 2007

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```
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```

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```
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```

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/\* GNU m4 -- A simple macro processor

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\*/

/\* Code for all builtin macros, initialization of symbol table, and expansion of user defined macros. \*/

```
#include "m4.h"
```

```
#include "execute.h"
```

```
#include "memchr2.h"
```

```
#include "regex.h"
```

```
#include "spawn-pipe.h"
```

```
#include "wait-process.h"
```

```
#define ARG(i) (argc > (i) ? TOKEN_DATA_TEXT (argv[i]) : "")
```

/\* Initialization of builtin and predefined macros. The table "builtin\_tab" is both used for initialization, and by the "builtin" builtin. \*/

```
#define DECLARE(name) \  
static void name (struct obstack *, int, token_data **)
```

```
DECLARE (m4___file__);
DECLARE (m4___line__);
DECLARE (m4___program__);
DECLARE (m4_builtin);
DECLARE (m4_changecom);
DECLARE (m4_changequote);
#ifdef ENABLE_CHANGEWORD
DECLARE (m4_changeword);
#endif
DECLARE (m4_debugmode);
DECLARE (m4_debugfile);
DECLARE (m4_decr);
DECLARE (m4_define);
DECLARE (m4_defn);
DECLARE (m4_divert);
DECLARE (m4_divnum);
DECLARE (m4_dnl);
DECLARE (m4_dumpdef);
DECLARE (m4_errprint);
DECLARE (m4_esyscmd);
DECLARE (m4_eval);
DECLARE (m4_format);
DECLARE (m4_ifdef);
DECLARE (m4_ifelse);
DECLARE (m4_include);
DECLARE (m4_incr);
DECLARE (m4_index);
DECLARE (m4_indir);
DECLARE (m4_len);
DECLARE (m4_m4exit);
DECLARE (m4_m4wrap);
DECLARE (m4_maketemp);
DECLARE (m4_mkstemp);
DECLARE (m4_patsubst);
DECLARE (m4_popdef);
DECLARE (m4_pushdef);
DECLARE (m4_regexp);
DECLARE (m4_shift);
DECLARE (m4_sinclude);
DECLARE (m4_substr);
DECLARE (m4_syscmd);
DECLARE (m4_sysval);
DECLARE (m4_traceoff);
DECLARE (m4_traceon);
DECLARE (m4_translit);
DECLARE (m4_undefine);
DECLARE (m4_undivert);
```

```
#undef DECLARE
```

```
static builtin const builtin_tab[] =  
{
```

```
    /* name          GNUext macros blind function */  
  
    { "__file__",    true, false, false, m4__file__ },  
    { "__line__",   true, false, false, m4__line__ },  
    { "__program__", true, false, false, m4__program__ },  
    { "builtin",    true, true, true, m4_builtin },  
    { "changeocom", false, false, false, m4_changeocom },  
    { "changequote", false, false, false, m4_changequote },  
#ifdef ENABLE_CHANGEWORD  
    { "changeword", true, false, true, m4_changeword },  
#endif  
    { "debugmode",  true, false, false, m4_debugmode },  
    { "debugfile",  true, false, false, m4_debugfile },  
    { "decr",       false, false, true, m4_decr },  
    { "define",     false, true, true, m4_define },  
    { "defn",       false, false, true, m4_defn },  
    { "divert",     false, false, false, m4_divert },  
    { "divnum",     false, false, false, m4_divnum },  
    { "dnl",        false, false, false, m4_dnl },  
    { "dumpdef",    false, false, false, m4_dumpdef },  
    { "errprint",   false, false, true, m4_errprint },  
    { "esyscmd",    true, false, true, m4_esyscmd },  
    { "eval",       false, false, true, m4_eval },  
    { "format",     true, false, true, m4_format },  
    { "ifdef",      false, false, true, m4_ifdef },  
    { "ifndef",     false, false, true, m4_ifndef },  
    { "include",    false, false, true, m4_include },  
    { "incr",       false, false, true, m4_incr },  
    { "index",      false, false, true, m4_index },  
    { "indir",      true, true, true, m4_indir },  
    { "len",        false, false, true, m4_len },  
    { "m4exit",     false, false, false, m4_m4exit },  
    { "m4wrap",     false, false, true, m4_m4wrap },  
    { "maketemp",   false, false, true, m4_maketemp },  
    { "mkstemp",    false, false, true, m4_mkstemp },  
    { "patsubst",   true, false, true, m4_patsubst },  
    { "popdef",     false, false, true, m4_popdef },  
    { "pushdef",    false, true, true, m4_pushdef },  
    { "regexp",     true, false, true, m4_regexp },  
    { "shift",      false, false, true, m4_shift },  
    { "sinclude",   false, false, true, m4_sinclude },  
    { "substr",     false, false, true, m4_substr },  
    { "syscmd",     false, false, true, m4_syscmd },
```

```

{ "sysval",      false, false, false, m4_sysval },
{ "traceoff",   false, false, false, m4_traceoff },
{ "traceon",    false, false, false, m4_traceon },
{ "translit",   false, false, true,  m4_translit },
{ "undefine",   false, false, true,  m4_undefine },
{ "undivert",   false, false, false, m4_undivert },

{ 0,           false, false, false, 0 },

/* placeholder is intentionally stuck after the table end delimiter,
   so that we can easily find it, while not treating it as a real
   builtin. */
{ "placeholder", true, false, false, m4_placeholder },
};

static predefined const predefined_tab[] =
{
#ifdef UNIX
  { "unix",  "__unix__",  "" },
#endif
#ifdef W32_NATIVE
  { "windows", "__windows__", "" },
#endif
#ifdef OS2
  { "os2",  "__os2__",  "" },
#endif
#ifdef !UNIX && !W32_NATIVE && !OS2
  # warning Platform macro not provided
#endif
  { NULL,  "__gnu__",  "" },

  { NULL,  NULL,  NULL },
};

/*-----
| Find the builtin, which lives on ADDR. |
`-----*/

const builtin *
find_builtin_by_addr (builtin_func *func)
{
  const builtin *bp;

  for (bp = &builtin_tab[0]; bp->name != NULL; bp++)
    if (bp->func == func)
      return bp;
  if (func == m4_placeholder)
    return bp + 1;
}

```

```

return NULL;
}

/*-----
| Find the builtin, which has NAME. On failure, return the |
| placeholder builtin. |
\-----*/

const builtin *
find_builtin_by_name (const char *name)
{
const builtin *bp;

for (bp = &builtin_tab[0]; bp->name != NULL; bp++)
if (STREQ (bp->name, name))
return bp;
return bp + 1;
}

/*-----
| Install a builtin macro with name NAME, bound to the C function |
| given in BP. MODE is SYMBOL_INSERT or SYMBOL_PUSHDEF. |
\-----*/

void
define_builtin (const char *name, const builtin *bp, symbol_lookup mode)
{
symbol *sym;

sym = lookup_symbol (name, mode);
SYMBOL_TYPE (sym) = TOKEN_FUNC;
SYMBOL_MACRO_ARGS (sym) = bp->groks_macro_args;
SYMBOL_BLIND_NO_ARGS (sym) = bp->blind_if_no_args;
SYMBOL_FUNC (sym) = bp->func;
}

/* Storage for the compiled regular expression of
--warn-macro-sequence. */
static struct re_pattern_buffer macro_sequence_buf;

/* Storage for the matches of --warn-macro-sequence. */
static struct re_registers macro_sequence_regs;

/* True if --warn-macro-sequence is in effect. */
static bool macro_sequence_inuse;

/*-----
| Clean up regular expression variables. |

```

```

\-----*/

static void
free_pattern_buffer (struct re_pattern_buffer *buf, struct re_registers *regs)
{
    regfree (buf);
    free (regs->start);
    free (regs->end);
}

/*-----
| Set the regular expression of --warn-macro-sequence that will be |
| checked during define and pushdef. Exit on failure.           |
\-----*/

void
set_macro_sequence (const char *regexp)
{
    const char *msg;

    if (! regexp)
        regexp = DEFAULT_MACRO_SEQUENCE;
    else if (regexp[0] == '\0')
    {
        macro_sequence_inuse = false;
        return;
    }

    msg = re_compile_pattern (regexp, strlen (regexp), &macro_sequence_buf);
    if (msg != NULL)
    {
        M4ERROR ((EXIT_FAILURE, 0,
            "--warn-macro-sequence: bad regular expression `%s': %s",
            regexp, msg));
    }
    re_set_registers (&macro_sequence_buf, &macro_sequence_regs,
        macro_sequence_regs.num_regs,
        macro_sequence_regs.start, macro_sequence_regs.end);
    macro_sequence_inuse = true;
}

/*-----
| Free dynamic memory utilized by the macro sequence regular |
| expression during the define builtin.                       |
\-----*/

void
free_macro_sequence (void)
{
    free_pattern_buffer (&macro_sequence_buf, &macro_sequence_regs);
}

```



```

}

/*-----
| Define a predefined or user-defined macro, with name NAME, and |
| expansion TEXT. MODE distinguishes between the "define" and the |
| "pushdef" case. It is also used from main. |
`-----*/

void
define_user_macro (const char *name, const char *text, symbol_lookup mode)
{
    symbol *s;
    char *defn = xstrdup (text ? text : "");

    s = lookup_symbol (name, mode);
    if (SYMBOL_TYPE (s) == TOKEN_TEXT)
        free (SYMBOL_TEXT (s));

    SYMBOL_TYPE (s) = TOKEN_TEXT;
    SYMBOL_TEXT (s) = defn;

    /* Implement --warn-macro-sequence. */
    if (macro_sequence_inuse && text)
    {
        regoff_t offset = 0;
        size_t len = strlen (defn);

        while ((offset = re_search (&macro_sequence_buf, defn, len, offset,
                                   len - offset, &macro_sequence_regs)) >= 0)
        {
            /* Skip empty matches. */
            if (macro_sequence_regs.start[0] == macro_sequence_regs.end[0])
                offset++;
            else
            {
                char tmp;
                offset = macro_sequence_regs.end[0];
                tmp = defn[offset];
                defn[offset] = '\0';
                M4ERROR ((warning_status, 0,
                        "Warning: definition of `%s' contains sequence `%s'",
                        name, defn + macro_sequence_regs.start[0]));
                defn[offset] = tmp;
            }
        }
    }
    if (offset == -2)
        M4ERROR ((warning_status, 0,
                "error checking --warn-macro-sequence for macro `%s'",

```

```

        name));
    }
}

/*-----
| Initialize all builtin and predefined macros. |
\-----*/

void
builtin_init (void)
{
    const builtin *bp;
    const predefined *pp;
    char *string;

    for (bp = &builtin_tab[0]; bp->name != NULL; bp++)
        if (!no_gnu_extensions || !bp->gnu_extension)
            {
                if (prefix_all_builtins)
                    {
                        string = (char *) xmalloc (strlen (bp->name) + 4);
                        strcpy (string, "m4_");
                        strcat (string, bp->name);
                        define_builtin (string, bp, SYMBOL_INSERT);
                        free (string);
                    }
                else
                    define_builtin (bp->name, bp, SYMBOL_INSERT);
            }

    for (pp = &predefined_tab[0]; pp->func != NULL; pp++)
        if (no_gnu_extensions)
            {
                if (pp->unix_name != NULL)
                    define_user_macro (pp->unix_name, pp->func, SYMBOL_INSERT);
            }
        else
            {
                if (pp->gnu_name != NULL)
                    define_user_macro (pp->gnu_name, pp->func, SYMBOL_INSERT);
            }
    }

/*-----
| Give friendly warnings if a builtin macro is passed an      |
| inappropriate number of arguments. NAME is the macro name for |
| messages, ARGC is actual number of arguments, MIN is the minimum |
| number of acceptable arguments, negative if not applicable, MAX is |

```

```

| the maximum number, negative if not applicable.      |
\-----*/

static bool
bad_argc (token_data *name, int argc, int min, int max)
{
    bool isbad = false;

    if (min > 0 && argc < min)
    {
        if (!suppress_warnings)
            M4ERROR ((warning_status, 0,
                "Warning: too few arguments to builtin `%s'",
                TOKEN_DATA_TEXT (name)));
        isbad = true;
    }
    else if (max > 0 && argc > max && !suppress_warnings)
        M4ERROR ((warning_status, 0,
            "Warning: excess arguments to builtin `%s' ignored",
            TOKEN_DATA_TEXT (name)));

    return isbad;
}

/*-----
| The function numeric_arg () converts ARG to an int pointed to by |
| VALUEP. If the conversion fails, print error message for macro |
| MACRO. Return true iff conversion succeeds.                    |
\-----*/

static bool
numeric_arg (token_data *macro, const char *arg, int *valuep)
{
    char *endp;

    if (*arg == '\0')
    {
        *valuep = 0;
        M4ERROR ((warning_status, 0,
            "empty string treated as 0 in builtin `%s'",
            TOKEN_DATA_TEXT (macro)));
    }
    else
    {
        errno = 0;
        *valuep = strtol (arg, &endp, 10);
        if (*endp != '\0')
            {

```

```

    M4ERROR ((warning_status, 0,
              "non-numeric argument to builtin `%s'",
              TOKEN_DATA_TEXT (macro)));
    return false;
}
if (isspace (to_uchar (*arg)))
    M4ERROR ((warning_status, 0,
              "leading whitespace ignored in builtin `%s'",
              TOKEN_DATA_TEXT (macro)));
else if (errno == ERANGE)
    M4ERROR ((warning_status, 0,
              "numeric overflow detected in builtin `%s'",
              TOKEN_DATA_TEXT (macro)));
}
return true;
}

/*-----
| The function ntoa () converts VALUE to a signed ASCII |
| representation in radix RADIX.                        |
`-----*/

/* Digits for number to ASCII conversions. */
static char const digits[] = "0123456789abcdefghijklmnopqrstuvwxy";

const char *
ntoa (int32_t value, int radix)
{
    bool negative;
    uint32_t uvalue;
    static char str[256];
    char *s = &str[sizeof str];

    *--s = '\0';

    if (value < 0)
    {
        negative = true;
        uvalue = -(uint32_t) value;
    }
    else
    {
        negative = false;
        uvalue = (uint32_t) value;
    }

    do
    {

```

```

    *--s = digits[uvalue % radix];
    uvalue /= radix;
}
while (uvalue > 0);

if (negative)
    *--s = '-';
return s;
}

/*-----
| Format an int VAL, and stuff it into an obstack OBS. Used for |
| macros expanding to numbers.                               |
\-----*/

static void
shipout_int (struct obstack *obs, int val)
{
    const char *s;

    s = ntoa ((int32_t) val, 10);
    obstack_grow (obs, s, strlen (s));
}

/*-----
| Print ARGV arguments from the table ARGV to obstack OBS, separated |
| by SEP, and quoted by the current quotes if QUOTED is true.      |
\-----*/

static void
dump_args (struct obstack *obs, int argc, token_data **argv,
           const char *sep, bool quoted)
{
    int i;
    size_t len = strlen (sep);

    for (i = 1; i < argc; i++)
    {
        if (i > 1)
            obstack_grow (obs, sep, len);
        if (quoted)
            obstack_grow (obs, lquote.string, lquote.length);
        obstack_grow (obs, TOKEN_DATA_TEXT (argv[i]),
                     strlen (TOKEN_DATA_TEXT (argv[i])));
        if (quoted)
            obstack_grow (obs, rquote.string, rquote.length);
    }
}

```

/\* The rest of this file is code for builtins and expansion of user defined macros. All the functions for builtins have a prototype as:

```
void m4_MACRONAME (struct obstack *obs, int argc, char *argv[]);
```

The function are expected to leave their expansion on the obstack OBS, as an unfinished object. ARGV is a table of ARGV pointers to the individual arguments to the macro. Please note that in general argv[argc] != NULL. \*/

/\* The first section are macros for defining, undefining, examining, changing, ... other macros. \*/

```
/*-----  
| The function define_macro is common for the builtins "define", |  
| "undefine", "pushdef" and "popdef". ARGV and ARGV is as for the |  
| caller, and MODE argument determines how the macro name is entered |  
| into the symbol table. |  
`-----*/
```

```
static void  
define_macro (int argc, token_data **argv, symbol_lookup mode)  
{  
  const builtin *bp;  
  
  if (bad_argc (argv[0], argc, 2, 3))  
    return;  
  
  if (TOKEN_DATA_TYPE (argv[1]) != TOKEN_TEXT)  
  {  
    M4ERROR ((warning_status, 0,  
              "Warning: %s: invalid macro name ignored", ARG (0)));  
    return;  
  }  
  
  if (argc == 2)  
  {  
    define_user_macro (ARG (1), "", mode);  
    return;  
  }  
  
  switch (TOKEN_DATA_TYPE (argv[2]))  
  {  
  case TOKEN_TEXT:  
    define_user_macro (ARG (1), ARG (2), mode);  
    break;
```

```

case TOKEN_FUNC:
    bp = find_builtin_by_addr (TOKEN_DATA_FUNC (argv[2]));
    if (bp == NULL)
        return;
    else
        define_builtin (ARG (1), bp, mode);
    break;

case TOKEN_VOID:
default:
    M4ERROR ((warning_status, 0,
              "INTERNAL ERROR: bad token data type in define_macro ("));
    abort ();
}
}

static void
m4_define (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    define_macro (argc, argv, SYMBOL_INSERT);
}

static void
m4_undefine (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    int i;
    if (bad_argc (argv[0], argc, 2, -1))
        return;
    for (i = 1; i < argc; i++)
        lookup_symbol (ARG (i), SYMBOL_DELETE);
}

static void
m4_pushdef (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    define_macro (argc, argv, SYMBOL_PUSHDEF);
}

static void
m4_popdef (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    int i;
    if (bad_argc (argv[0], argc, 2, -1))
        return;
    for (i = 1; i < argc; i++)
        lookup_symbol (ARG (i), SYMBOL_POPDEF);
}

```

```

/*-----
| Conditionals of m4. |
`-----*/

static void
m4_ifdef (struct obstack *obs, int argc, token_data **argv)
{
    symbol *s;
    const char *result;

    if (bad_argc (argv[0], argc, 3, 4))
        return;
    s = lookup_symbol (ARG (1), SYMBOL_LOOKUP);

    if (s != NULL && SYMBOL_TYPE (s) != TOKEN_VOID)
        result = ARG (2);
    else if (argc >= 4)
        result = ARG (3);
    else
        result = NULL;

    if (result != NULL)
        obstack_grow (obs, result, strlen (result));
}

static void
m4_ifelse (struct obstack *obs, int argc, token_data **argv)
{
    const char *result;
    token_data *me = argv[0];

    if (argc == 2)
        return;

    if (bad_argc (me, argc, 4, -1))
        return;
    else
        /* Diagnose excess arguments if 5, 8, 11, etc., actual arguments. */
        bad_argc (me, (argc + 2) % 3, -1, 1);

    argv++;
    argc--;

    result = NULL;
    while (result == NULL)

        if (STREQ (ARG (0), ARG (1)))
            result = ARG (2);

```



```

else
switch (argc)
{
case 3:
return;

case 4:
case 5:
result = ARG (3);
break;

default:
argc -= 3;
argv += 3;
}

obstack_grow (obs, result, strlen (result));
}

/*-----
| The function dump_symbol () is for use by "dumpdef". It builds up |
| a table of all defined, un-shadowed, symbols. |
`-----*/

/* The structure dump_symbol_data is used to pass the information needed
from call to call to dump_symbol. */

struct dump_symbol_data
{
struct obstack *obs; /* obstack for table */
symbol **base; /* base of table */
int size; /* size of table */
};

static void
dump_symbol (symbol *sym, void *arg)
{
struct dump_symbol_data *data = (struct dump_symbol_data *) arg;
if (!SYMBOL_SHADOWED (sym) && SYMBOL_TYPE (sym) != TOKEN_VOID)
{
obstack_blank (data->obs, sizeof (symbol *));
data->base = (symbol **) obstack_base (data->obs);
data->base[data->size++] = sym;
}
}

/*-----

```

```

| qsort comparison routine, for sorting the table made in m4_dumpdef (). |
\-----*/

static int
dumpdef_cmp (const void *s1, const void *s2)
{
    return strcmp (SYMBOL_NAME (* (symbol *const *) s1),
                  SYMBOL_NAME (* (symbol *const *) s2));
}

/*-----
| Implementation of "dumpdef" itself. It builds up a table of |
| pointers to symbols, sorts it and prints the sorted table. |
\-----*/

static void
m4_dumpdef (struct obstack *obs, int argc, token_data **argv)
{
    symbol *s;
    int i;
    struct dump_symbol_data data;
    const builtin *bp;

    data.obs = obs;
    data.base = (symbol **) obstack_base (obs);
    data.size = 0;

    if (argc == 1)
        {
            hack_all_symbols (dump_symbol, &data);
        }
    else
        {
            for (i = 1; i < argc; i++)
                {
                    s = lookup_symbol (TOKEN_DATA_TEXT (argv[i]), SYMBOL_LOOKUP);
                    if (s != NULL && SYMBOL_TYPE (s) != TOKEN_VOID)
                        dump_symbol (s, &data);
                    else
                        M4ERROR ((warning_status, 0,
                                "undefined macro `%s'", TOKEN_DATA_TEXT (argv[i]));
                }
        }

    /* Make table of symbols invisible to expand_macro (). */

    obstack_finish (obs);

```

```

qsort (data.base, data.size, sizeof (symbol *), dumpdef_cmp);

for (; data.size > 0; --data.size, data.base++)
{
    DEBUG_PRINT1 ("%s:\t", SYMBOL_NAME (data.base[0]));

    switch (SYMBOL_TYPE (data.base[0]))
    {
    case TOKEN_TEXT:
        if (debug_level & DEBUG_TRACE_QUOTE)
            DEBUG_PRINT3 ("%s%s%s\n",
                lquote.string, SYMBOL_TEXT (data.base[0]), rquote.string);
        else
            DEBUG_PRINT1 ("%s\n", SYMBOL_TEXT (data.base[0]));
        break;

    case TOKEN_FUNC:
        bp = find_builtin_by_addr (SYMBOL_FUNC (data.base[0]));
        if (bp == NULL)
        {
            M4ERROR ((warning_status, 0, "\
INTERNAL ERROR: builtin not found in builtin table"));
            abort ();
        }
        DEBUG_PRINT1 ("<%s>\n", bp->name);
        break;

    case TOKEN_VOID:
    default:
        M4ERROR ((warning_status, 0,
            "INTERNAL ERROR: bad token data type in m4_dumpdef ("));
        abort ();
        break;
    }
}

/*-----
| The builtin "builtin" allows calls to builtin macros, even if |
| their definition has been overridden or shadowed. It is thus |
| possible to redefine builtins, and still access their original |
| definition. This macro is not available in compatibility mode. |
|-----*/

static void
m4_builtin (struct obstack *obs, int argc, token_data **argv)
{
    const builtin *bp;

```

```

const char *name;

if (bad_argc (argv[0], argc, 2, -1))
    return;
if (TOKEN_DATA_TYPE (argv[1]) != TOKEN_TEXT)
{
    M4ERROR ((warning_status, 0,
              "Warning: %s: invalid macro name ignored", ARG (0)));
    return;
}

name = ARG (1);
bp = find_builtin_by_name (name);
if (bp->func == m4_placeholder)
    M4ERROR ((warning_status, 0,
              "undefined builtin `%s'", name));
else
{
    int i;
    if (! bp->groks_macro_args)
        for (i = 2; i < argc; i++)
            if (TOKEN_DATA_TYPE (argv[i]) != TOKEN_TEXT)
                {
                    TOKEN_DATA_TYPE (argv[i]) = TOKEN_TEXT;
                    TOKEN_DATA_TEXT (argv[i]) = (char *) "";
                }
    bp->func (obs, argc - 1, argv + 1);
}
}

```

```

/*-----
| The builtin "indir" allows indirect calls to macros, even if their |
| name is not a proper macro name. It is thus possible to define |
| macros with ill-formed names for internal use in larger macro |
| packages. This macro is not available in compatibility mode. |
|-----*/

```

```

static void
m4_indir (struct obstack *obs, int argc, token_data **argv)
{
    symbol *s;
    const char *name;

    if (bad_argc (argv[0], argc, 2, -1))
        return;
    if (TOKEN_DATA_TYPE (argv[1]) != TOKEN_TEXT)
    {
        M4ERROR ((warning_status, 0,

```

```

        "Warning: %s: invalid macro name ignored", ARG (0));
    return;
}

name = ARG (1);
s = lookup_symbol (name, SYMBOL_LOOKUP);
if (s == NULL || SYMBOL_TYPE (s) == TOKEN_VOID)
    M4ERROR ((warning_status, 0,
             "undefined macro `%s'", name));
else
    {
        int i;
        if (! SYMBOL_MACRO_ARGS (s))
            for (i = 2; i < argc; i++)
                if (TOKEN_DATA_TYPE (argv[i]) != TOKEN_TEXT)
                    {
                        TOKEN_DATA_TYPE (argv[i]) = TOKEN_TEXT;
                        TOKEN_DATA_TEXT (argv[i]) = (char *) "";
                    }
                call_macro (s, argc - 1, argv + 1, obs);
    }
}

/*-----
| The macro "defn" returns the quoted definition of the macro named |
| by the first argument.  If the macro is builtin, it will push a |
| special macro-definition token on the input stack.                |
`-----*/

static void
m4_defn (struct obstack *obs, int argc, token_data **argv)
{
    symbol *s;
    builtin_func *b;
    unsigned int i;

    if (bad_argc (argv[0], argc, 2, -1))
        return;

    assert (0 < argc && argc <= INT_MAX);
    for (i = 1; i < (unsigned) argc; i++)
        {
            const char *arg = ARG((int) i);
            s = lookup_symbol (arg, SYMBOL_LOOKUP);
            if (s == NULL)
                continue;

            switch (SYMBOL_TYPE (s))

```

```

{
case TOKEN_TEXT:
    obstack_grow (obs, lquote.string, lquote.length);
    obstack_grow (obs, SYMBOL_TEXT (s), strlen (SYMBOL_TEXT (s)));
    obstack_grow (obs, rquote.string, rquote.length);
    break;

case TOKEN_FUNC:
    b = SYMBOL_FUNC (s);
    if (b == m4_placeholder)
        M4ERROR ((warning_status, 0, "\
builtin `%s' requested by frozen file is not supported", arg));
    else if (argc != 2)
        M4ERROR ((warning_status, 0,
            "Warning: cannot concatenate builtin `%s",
            arg));
    else
        push_macro (b);
    break;

case TOKEN_VOID:
    /* Nothing to do for traced but undefined macro. */
    break;

default:
    M4ERROR ((warning_status, 0,
        "INTERNAL ERROR: bad symbol type in m4_defn ())");
    abort ();
}
}
}

/*-----
| This section contains macros to handle the builtins "syscmd", |
| "esyscmd" and "sysval". "esyscmd" is GNU specific.          |
\-----*/

/* Exit code from last "syscmd" command. */
static int sysval;

static void
m4_syscmd (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    const char *cmd = ARG (1);
    int status;
    int sig_status;
    const char *prog_args[4] = { "sh", "-c" };
    if (bad_argc (argv[0], argc, 2, 2) || !*cmd)

```

```

{
    /* The empty command is successful. */
    sysval = 0;
    return;
}

debug_flush_files ();
#if W32_NATIVE
if (strstr (SYSCMD_SHELL, "cmd"))
{
    prog_args[0] = "cmd";
    prog_args[1] = "/c";
}
#endif
prog_args[2] = cmd;
errno = 0;
status = execute (ARG (0), SYSCMD_SHELL, (char **) prog_args, false,
                 false, false, false, true, false, &sig_status);
if (sig_status)
{
    assert (status == 127);
    sysval = sig_status << 8;
}
else
{
    if (status == 127 && errno)
        M4ERROR ((warning_status, errno, "cannot run command `%s'", cmd));
    sysval = status;
}
}

static void
m4_esyscmd (struct obstack *obs, int argc, token_data **argv)
{
    const char *cmd = ARG (1);
    const char *prog_args[4] = { "sh", "-c" };
    pid_t child;
    int fd;
    FILE *pin;
    int status;
    int sig_status;

    if (bad_argc (argv[0], argc, 2, 2) || !*cmd)
    {
        /* The empty command is successful. */
        sysval = 0;
        return;
    }

```

```

debug_flush_files ();
#if W32_NATIVE
if (strstr (SYSCMD_SHELL, "cmd"))
{
prog_args[0] = "cmd";
prog_args[1] = "/c";
}
#endif
prog_args[2] = cmd;
errno = 0;
child = create_pipe_in (ARG (0), SYSCMD_SHELL, (char **) prog_args,
NULL, false, true, false, &fd);
if (child == -1)
{
M4ERROR ((warning_status, errno, "cannot run command `%s'", cmd));
sysval = 127;
return;
}
pin = fdopen (fd, "r");
if (pin == NULL)
{
M4ERROR ((warning_status, errno, "cannot run command `%s'", cmd));
sysval = 127;
close (fd);
return;
}
while (1)
{
size_t avail = obstack_room (obs);
size_t len;
if (!avail)
{
int ch = getc (pin);
if (ch == EOF)
break;
obstack_1grow (obs, ch);
continue;
}
len = fread (obstack_next_free (obs), 1, avail, pin);
if (len <= 0)
break;
obstack_blank_fast (obs, len);
}
if (ferror (pin) || fclose (pin))
M4ERROR ((EXIT_FAILURE, errno, "cannot read pipe"));
errno = 0;
status = wait_subprocess (child, ARG (0), false, true, true, false,

```



```

        &sig_status);
if (sig_status)
{
    assert (status == 127);
    sysval = sig_status << 8;
}
else
{
    if (status == 127 && errno)
        M4ERROR ((warning_status, errno, "cannot run command `%s'", cmd));
    sysval = status;
}
}

```

```

static void
m4_sysval (struct obstack *obs, int argc M4_GNUC_UNUSED,
           token_data **argv M4_GNUC_UNUSED)
{
    shipout_int (obs, sysval);
}

```

```

/*-----
| This section contains the top level code for the "eval" builtin. |
| The actual work is done in the function evaluate (), which lives |
| in eval.c. |
`-----*/

```

```

static void
m4_eval (struct obstack *obs, int argc, token_data **argv)
{
    int32_t value = 0;
    int radix = 10;
    int min = 1;
    const char *s;

    if (bad_argc (argv[0], argc, 2, 4))
        return;

    if (*ARG (2) && !numeric_arg (argv[0], ARG (2), &radix))
        return;

    if (radix < 1 || radix > (int) strlen (digits))
    {
        M4ERROR ((warning_status, 0,
                 "radix %d in builtin `%s' out of range",
                 radix, ARG (0)));
        return;
    }
}

```

```

if (argc >= 4 && !numeric_arg (argv[0], ARG (3), &min))
    return;
if (min < 0)
{
    M4ERROR ((warning_status, 0,
              "negative width to builtin `%s'", ARG (0)));
    return;
}

if (!*ARG (1))
    M4ERROR ((warning_status, 0,
              "empty string treated as 0 in builtin `%s'", ARG (0)));
else if (evaluate (ARG (1), &value))
    return;

if (radix == 1)
{
    if (value < 0)
    {
        obstack_1grow (obs, '-');
        value = -value;
    }
    /* This assumes 2's-complement for correctly handling INT_MIN. */
    while (min-- - value > 0)
        obstack_1grow (obs, '0');
    while (value-- != 0)
        obstack_1grow (obs, '1');
    obstack_1grow (obs, '\0');
    return;
}

s = ntoa (value, radix);

if (*s == '-')
{
    obstack_1grow (obs, '-');
    s++;
}
for (min -= strlen (s); --min >= 0;)
    obstack_1grow (obs, '0');

obstack_grow (obs, s, strlen (s));
}

static void
m4_incr (struct obstack *obs, int argc, token_data **argv)
{

```

```

int value;

if (bad_argc (argv[0], argc, 2, 2))
    return;

if (!numeric_arg (argv[0], ARG (1), &value))
    return;

shipout_int (obs, value + 1);
}

static void
m4_decr (struct obstack *obs, int argc, token_data **argv)
{
    int value;

    if (bad_argc (argv[0], argc, 2, 2))
        return;

    if (!numeric_arg (argv[0], ARG (1), &value))
        return;

    shipout_int (obs, value - 1);
}

/* This section contains the macros "divert", "undivert" and "divnum" for
   handling diversion. The utility functions used lives in output.c. */

/*-----
| Divert further output to the diversion given by ARGV[1]. Out of |
| range means discard further output.                            |
\-----*/

static void
m4_divert (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    int i = 0;

    if (bad_argc (argv[0], argc, 1, 2))
        return;

    if (argc >= 2 && !numeric_arg (argv[0], ARG (1), &i))
        return;

    make_diversion (i);
}

/*-----

```

```

| Expand to the current diversion number, -1 if none. |
\-----*/

static void
m4_divnum (struct obstack *obs, int argc, token_data **argv)
{
  if (bad_argc (argv[0], argc, 1, 1))
    return;
  shipout_int (obs, current_diversion);
}

/*-----,
| Bring back the diversion given by the argument list. If none is |
| specified, bring back all diversions. GNU specific is the option |
| of undiverting named files, by passing a non-numeric argument to |
| undivert (). |
\-----*/

```

```

static void
m4_undivert (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
  int i, file;
  FILE *fp;
  char *endp;

  if (argc == 1)
    undivert_all ();
  else
    for (i = 1; i < argc; i++)
      {
        file = strtol (ARG (i), &endp, 10);
        if (*endp == '\0' && !isspace (to_uchar (*ARG (i))))
          insert_diversion (file);
        else if (no_gnu_extensions)
          M4ERROR ((warning_status, 0,
                    "non-numeric argument to builtin `%s'", ARG (0)));
        else
          {
            fp = m4_path_search (ARG (i), NULL);
            if (fp != NULL)
              {
                insert_file (fp);
                if (fclose (fp) == EOF)
                  M4ERROR ((warning_status, errno,
                            "error undiverting `%s'", ARG (i)));
              }
          }
        else
          M4ERROR ((warning_status, errno,

```

```

        "cannot undivert `%s'", ARG (i));
    }
}

/* This section contains various macros, which does not fall into any
   specific group. These are "dnl", "shift", "changequote", "changeom"
   and "changeword". */

/*-----,
| Delete all subsequent whitespace from input. The function |
| skip_line () lives in input.c. |
\-----*/

static void
m4_dnl (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 1, 1))
        return;

    skip_line ();
}

/*-----,
| Shift all arguments one to the left, discarding the first |
| argument. Each output argument is quoted with the current quotes. |
\-----*/

static void
m4_shift (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 2, -1))
        return;
    dump_args (obs, argc - 1, argv + 1, ",", true);
}

/*-----,
| Change the current quotes. The function set_quotes () lives in input.c. |
\-----*/

static void
m4_changequote (struct obstack *obs M4_GNUC_UNUSED, int argc,
                token_data **argv)
{
    if (bad_argc (argv[0], argc, 1, 3))
        return;

    /* Explicit NULL distinguishes between empty and missing argument. */

```

```

set_quotes ((argc >= 2) ? TOKEN_DATA_TEXT (argv[1]) : NULL,
            (argc >= 3) ? TOKEN_DATA_TEXT (argv[2]) : NULL);
}

/*-----
| Change the current comment delimiters. The function set_comment |
| () lives in input.c. |
\-----*/

static void
m4_changecom (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 1, 3))
        return;

    /* Explicit NULL distinguishes between empty and missing argument. */
    set_comment ((argc >= 2) ? TOKEN_DATA_TEXT (argv[1]) : NULL,
                (argc >= 3) ? TOKEN_DATA_TEXT (argv[2]) : NULL);
}

#ifdef ENABLE_CHANGEWORD

/*-----
| Change the regular expression used for breaking the input into |
| words. The function set_word_regexp () lives in input.c. |
\-----*/

static void
m4_changeword (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 2, 2))
        return;

    set_word_regexp (TOKEN_DATA_TEXT (argv[1]));
}

#endif /* ENABLE_CHANGEWORD */

/* This section contains macros for inclusion of other files -- "include"
and "sinclude". This differs from bringing back diversions, in that
the input is scanned before being copied to the output. */

/*-----
| Generic include function. Include the file given by the first |
| argument, if it exists. Complain about inaccessible files iff |
| SILENT is false. |
\-----*/

```

```

static void
include (int argc, token_data **argv, bool silent)
{
    FILE *fp;
    char *name;

    if (bad_argc (argv[0], argc, 2, 2))
        return;

    fp = m4_path_search (ARG (1), &name);
    if (fp == NULL)
    {
        if (!silent)
        {
            M4ERROR ((warning_status, errno, "cannot open `%s'", ARG (1)));
            retcode = EXIT_FAILURE;
        }
        return;
    }

    push_file (fp, name, true);
    free (name);
}

/*-----
| Include a file, complaining in case of errors. |
`-----*/

static void
m4_include (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    include (argc, argv, false);
}

/*-----
| Include a file, ignoring errors. |
`-----*/

static void
m4_sinclude (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    include (argc, argv, true);
}

/* More miscellaneous builtins -- "maketemp", "errprint", "__file__",
   "__line__", and "__program__". The last three are GNU specific. */

/*-----

```

```

| Use the first argument as at template for a temporary file name. |
\-----*/

/* Add trailing 'X' to PATTERN of length LEN as necessary, then
   securely create the file, and place the quoted new file name on
   OBS. Report errors on behalf of ME. */
static void
mkstemp_helper (struct obstack *obs, const char *me, const char *pattern,
                size_t len)
{
  int fd;
  size_t i;
  char *name;

  /* Guarantee that there are six trailing 'X' characters, even if the
     user forgot to supply them. Output must be quoted if
     successful. */
  obstack_grow (obs, lquote.string, lquote.length);
  obstack_grow (obs, pattern, len);
  for (i = 0; len > 0 && i < 6; i++)
    if (pattern[len - i - 1] != 'X')
      break;
  obstack_grow0 (obs, "XXXXXX", 6 - i);
  name = (char *) obstack_base (obs) + lquote.length;

  errno = 0;
  fd = mkstemp (name);
  if (fd < 0)
    {
      M4ERROR ((0, errno, "%s: cannot create tempfile `%s'", me, pattern));
      obstack_free (obs, obstack_finish (obs));
    }
  else
    {
      close (fd);
      /* Remove NUL, then finish quote. */
      obstack_blank (obs, -1);
      obstack_grow (obs, rquote.string, rquote.length);
    }
}

static void
m4_maketemp (struct obstack *obs, int argc, token_data **argv)
{
  if (bad_argc (argv[0], argc, 2, 2))
    return;
  if (no_gnu_extensions)
    {

```



/\* POSIX states "any trailing 'X' characters [are] replaced with the current process ID as a string", without referencing the file system. Horribly insecure, but we have to do it when we are in traditional mode.

For reference, Solaris m4 does:

```
maketemp() -> `'  
maketemp(X) -> `X'  
maketemp(XX) -> `Xn', where n is last digit of pid  
maketemp(XXXXXXXX) -> `X00nnnnn', where nnnnn is 16-bit pid
```

\*/

```
const char *str = ARG (1);
```

```
int len = strlen (str);
```

```
int i;
```

```
int len2;
```

```
M4ERROR ((warning_status, 0, "recommend using mkstemp instead"));
```

```
for (i = len; i > 1; i--)
```

```
  if (str[i - 1] != 'X')
```

```
    break;
```

```
  obstack_grow (obs, str, i);
```

```
  str = ntoa ((int32_t) getpid (), 10);
```

```
  len2 = strlen (str);
```

```
  if (len2 > len - i)
```

```
    obstack_grow0 (obs, str + len2 - (len - i), len - i);
```

```
  else
```

```
  {
```

```
    while (i++ < len - len2)
```

```
      obstack_1grow (obs, '0');
```

```
      obstack_grow0 (obs, str, len2);
```

```
  }
```

```
}
```

```
else
```

```
  mkstemp_helper (obs, ARG (0), ARG (1), strlen (ARG (1)));
```

```
}
```

```
static void
```

```
m4_mkstemp (struct obstack *obs, int argc, token_data **argv)
```

```
{
```

```
  if (bad_argc (argv[0], argc, 2, 2))
```

```
    return;
```

```
  mkstemp_helper (obs, ARG (0), ARG (1), strlen (ARG (1)));
```

```
}
```

```
/*-----
```

```
| Print all arguments on standard error. |
```

```
^-----*/
```

```

static void
m4_errprint (struct obstack *obs, int argc, token_data **argv)
{
  if (bad_argc (argv[0], argc, 2, -1))
    return;
  dump_args (obs, argc, argv, " ", false);
  obstack_1grow (obs, '\0');
  debug_flush_files ();
  fprintf (stderr, "%s", (char *) obstack_finish (obs));
  fflush (stderr);
}

static void
m4__file__ (struct obstack *obs, int argc, token_data **argv)
{
  if (bad_argc (argv[0], argc, 1, 1))
    return;
  obstack_grow (obs, lquote.string, lquote.length);
  obstack_grow (obs, current_file, strlen (current_file));
  obstack_grow (obs, rquote.string, rquote.length);
}

static void
m4__line__ (struct obstack *obs, int argc, token_data **argv)
{
  if (bad_argc (argv[0], argc, 1, 1))
    return;
  shipout_int (obs, current_line);
}

static void
m4__program__ (struct obstack *obs, int argc, token_data **argv)
{
  if (bad_argc (argv[0], argc, 1, 1))
    return;
  obstack_grow (obs, lquote.string, lquote.length);
  obstack_grow (obs, program_name, strlen (program_name));
  obstack_grow (obs, rquote.string, rquote.length);
}

/* This section contains various macros for exiting, saving input until
   EOF is seen, and tracing macro calls. That is: "m4exit", "m4wrap",
   "traceon" and "traceoff". */

/*-----
| Exit immediately, with exit status specified by the first |
| argument, or 0 if no arguments are present.             |
\-----*/

```

```

static void M4_GNUC_NORETURN
m4_m4exit (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    int exit_code = EXIT_SUCCESS;

    /* Warn on bad arguments, but still exit. */
    bad_argc (argv[0], argc, 1, 2);
    if (argc >= 2 && !numeric_arg (argv[0], ARG (1), &exit_code))
        exit_code = EXIT_FAILURE;
    if (exit_code < 0 || exit_code > 255)
        {
            M4ERROR ((warning_status, 0,
                "exit status out of range: `%d'", exit_code));
            exit_code = EXIT_FAILURE;
        }
    /* Change debug stream back to stderr, to force flushing debug stream and
       detect any errors it might have encountered. */
    debug_set_output (NULL);
    debug_flush_files ();
    if (exit_code == EXIT_SUCCESS && retcode != EXIT_SUCCESS)
        exit_code = retcode;
    /* Propagate non-zero status to atexit handlers. */
    if (exit_code != EXIT_SUCCESS)
        exit_failure = exit_code;
    exit (exit_code);
}

/*-----
| Save the argument text until EOF has been seen, allowing for user |
| specified cleanup action. GNU version saves all arguments, the |
| standard version only the first. |
`-----*/

static void
m4_m4wrap (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 2, -1))
        return;
    if (no_gnu_extensions)
        obstack_grow (obs, ARG (1), strlen (ARG (1)));
    else
        dump_args (obs, argc, argv, " ", false);
    obstack_1grow (obs, '\0');
    push_wrapup ((char *) obstack_finish (obs));
}

/* Enable tracing of all specified macros, or all, if none is specified.

```

Tracing is disabled by default, when a macro is defined. This can be overridden by the "t" debug flag. \*/

```
/*-----.  
| Set_trace () is used by "traceon" and "traceoff" to enable and |  
| disable tracing of a macro. It disables tracing if DATA is NULL, |  
| otherwise it enables tracing. |  
`-----*/  
  
static void  
set_trace (symbol *sym, void *data)  
{  
    SYMBOL_TRACED (sym) = data != NULL;  
    /* Remove placeholder from table if macro is undefined and untraced. */  
    if (SYMBOL_TYPE (sym) == TOKEN_VOID && data == NULL)  
        lookup_symbol (SYMBOL_NAME (sym), SYMBOL_POPDEF);  
}
```

```
static void  
m4_traceon (struct obstack *obs, int argc, token_data **argv)  
{  
    symbol *s;  
    int i;  
  
    if (argc == 1)  
        hack_all_symbols (set_trace, obs);  
    else  
        for (i = 1; i < argc; i++)  
            {  
                s = lookup_symbol (ARG (i), SYMBOL_LOOKUP);  
                if (!s)  
                    s = lookup_symbol (ARG (i), SYMBOL_INSERT);  
                set_trace (s, obs);  
            }  
}
```

```
/*-----.  
| Disable tracing of all specified macros, or all, if none is specified. |  
`-----*/
```

```
static void  
m4_traceoff (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)  
{  
    symbol *s;  
    int i;  
  
    if (argc == 1)  
        hack_all_symbols (set_trace, NULL);
```

```

else
  for (i = 1; i < argc; i++)
  {
    s = lookup_symbol (TOKEN_DATA_TEXT (argv[i]), SYMBOL_LOOKUP);
    if (s != NULL)
      set_trace (s, NULL);
  }
}

/*-----
| On-the-fly control of the format of the tracing output. It takes |
| one argument, which is a character string like given to the -d |
| option, or none in which case the debug_level is zeroed.      |
`-----*/

static void
m4_debugmode (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
  int new_debug_level;
  int change_flag;

  if (bad_argc (argv[0], argc, 1, 2))
    return;

  if (argc == 1)
    debug_level = 0;
  else
  {
    if (ARG (1)[0] == '+' || ARG (1)[0] == '-')
    {
      change_flag = ARG (1)[0];
      new_debug_level = debug_decode (ARG (1) + 1);
    }
    else
    {
      change_flag = 0;
      new_debug_level = debug_decode (ARG (1));
    }
  }

  if (new_debug_level < 0)
    M4ERROR ((warning_status, 0,
              "Debugmode: bad debug flags: `%s'", ARG (1)));
  else
  {
    switch (change_flag)
    {
      case 0:
        debug_level = new_debug_level;

```

```

        break;

    case '+':
        debug_level |= new_debug_level;
        break;

    case '-':
        debug_level &= ~new_debug_level;
        break;

    default:
        M4ERROR ((warning_status, 0,
                 "INTERNAL ERROR: bad flag in m4_debugmode ("));
        abort ();
    }
}
}
}

/*-----
| Specify the destination of the debugging output.  With one argument, the |
| argument is taken as a file name, with no arguments, revert to stderr.  |
`-----*/

static void
m4_debugfile (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 1, 2))
        return;

    if (argc == 1)
        debug_set_output (NULL);
    else if (!debug_set_output (ARG (1)))
        M4ERROR ((warning_status, errno,
                 "cannot set debug file `%s'", ARG (1)));
}

/* This section contains text processing macros: "len", "index",
"substr", "translit", "format", "regexp" and "patsubst".  The last
three are GNU specific. */

/*-----
| Expand to the length of the first argument.  |
`-----*/

static void
m4_len (struct obstack *obs, int argc, token_data **argv)
{

```

```

if (bad_argc (argv[0], argc, 2, 2))
    return;
shipout_int (obs, strlen (ARG (1)));
}

/*-----
| The macro expands to the first index of the second argument in the |
| first argument. |
\-----*/

```

```

static void
m4_index (struct obstack *obs, int argc, token_data **argv)
{
    const char *haystack;
    const char *result;
    int retval;

```

```

if (bad_argc (argv[0], argc, 3, 3))
{
    /* builtin(`index') is blank, but index(`abc') is 0. */
    if (argc == 2)
        shipout_int (obs, 0);
    return;
}

```

```

haystack = ARG (1);
result = strstr (haystack, ARG (2));
retval = result ? result - haystack : -1;

```

```

shipout_int (obs, retval);
}

```

```

/*-----
| The macro "substr" extracts substrings from the first argument, |
| starting from the index given by the second argument, extending |
| for a length given by the third argument. If the third argument |
| is missing, the substring extends to the end of the first |
| argument. |
\-----*/

```

```

static void
m4_substr (struct obstack *obs, int argc, token_data **argv)
{
    int start = 0;
    int length, avail;

```

```

if (bad_argc (argv[0], argc, 3, 4))
{

```

```

/* builtin(^ substr') is blank, but substr(^ abc') is abc. */
if (argc == 2)
    obstack_grow (obs, ARG (1), strlen (ARG (1)));
return;
}

length = avail = strlen (ARG (1));
if (!numeric_arg (argv[0], ARG (2), &start))
    return;

if (argc >= 4 && !numeric_arg (argv[0], ARG (3), &length))
    return;

if (start < 0 || length <= 0 || start >= avail)
    return;

if (start + length > avail)
    length = avail - start;
obstack_grow (obs, ARG (1) + start, length);
}

/*-----
| For "translit", ranges are allowed in the second and third |
| argument. They are expanded in the following function, and the |
| expanded strings, without any ranges left, are used to translate |
| the characters of the first argument. A single - (dash) can be |
| included in the strings by being the first or the last character |
| in the string. If the first character in a range is after the |
| first in the character set, the range is made backwards, thus 9-0 |
| is the string 9876543210. |
|-----*/

static const char *
expand_ranges (const char *s, struct obstack *obs)
{
    unsigned char from;
    unsigned char to;

    for (from = '\0'; *s != '\0'; from = to_uchar (*s++))
    {
        if (*s == '-' && from != '\0')
        {
            to = to_uchar (*++s);
            if (to == '\0')
            {
                /* trailing dash */
                obstack_1grow (obs, '-');
                break;
            }
        }
    }
}

```



```

    }
    else if (from <= to)
    {
        while (from++ < to)
            obstack_1grow (obs, from);
    }
    else
    {
        while (--from >= to)
            obstack_1grow (obs, from);
    }
}
else
    obstack_1grow (obs, *s);
}
obstack_1grow (obs, '\0');
return (char *) obstack_finish (obs);
}

```

```

/*-----
| The macro "translit" translates all characters in the first
| argument, which are present in the second argument, into the
| corresponding character from the third argument. If the third
| argument is shorter than the second, the extra characters in the
| second argument are deleted from the first.
`-----*/

```

```

static void
m4_translit (struct obstack *obs, int argc, token_data **argv)
{
    const char *data = ARG (1);
    const char *from = ARG (2);
    const char *to;
    char map[UCHAR_MAX + 1];
    char found[UCHAR_MAX + 1];
    unsigned char ch;

    if (bad_argc (argv[0], argc, 3, 4) || !*data || !*from)
    {
        /* builtin(^translit') is blank, but translit(`abc') is abc. */
        if (2 <= argc)
            obstack_grow (obs, data, strlen (data));
        return;
    }

    to = ARG (3);
    if (strchr (to, '-') != NULL)
    {

```

```

    to = expand_ranges (to, obs);
    assert (to && *to);
}

/* If there are only one or two bytes to replace, it is faster to
   use memchr2. Using expand_ranges does nothing unless there are
   at least three bytes. */
if (!from[1] || !from[2])
{
    const char *p;
    size_t len = strlen (data);
    while ((p = (char *) memchr2 (data, from[0], from[1], len)))
    {
        obstack_grow (obs, data, p - data);
        len -= p - data;
        if (!len)
            return;
        data = p + 1;
        len--;
        if (*p == from[0] && to[0])
            obstack_1grow (obs, to[0]);
        else if (*p == from[1] && to[0] && to[1])
            obstack_1grow (obs, to[1]);
    }
    obstack_grow (obs, data, len);
    return;
}

if (strchr (from, '-') != NULL)
{
    from = expand_ranges (from, obs);
    assert (from && *from);
}

/* Calling strchr(from) for each character in data is quadratic,
   since both strings can be arbitrarily long. Instead, create a
   from-to mapping in one pass of from, then use that map in one
   pass of data, for linear behavior. Traditional behavior is that
   only the first instance of a character in from is consulted,
   hence the found map. */
memset (map, 0, sizeof map);
memset (found, 0, sizeof found);
for (; (ch = *from) != '\0'; from++)
{
    if (! found[ch])
    {
        found[ch] = 1;
        map[ch] = *to;
    }
}

```

```

    }
    if (*to != '\0')
        to++;
    }

for (data = ARG (1); (ch = *data) != '\0'; data++)
{
    if (! found[ch])
        obstack_1grow (obs, ch);
    else if (map[ch])
        obstack_1grow (obs, map[ch]);
    }
}

/*-----
| Frontend for printf like formatting. The function format () lives |
| in the file format.c. |
\-----*/

static void
m4_format (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 2, -1))
        return;
    expand_format (obs, argc - 1, argv + 1);
}

/*-----
| Function to perform substitution by regular expressions. Used by |
| the builtins regexp and patsubst. The changed text is placed on |
| the obstack. The substitution is REPL, with \& substituted by |
| this part of VICTIM matched by the last whole regular expression, |
| taken from REGS[0], and \N substituted by the text matched by the |
| Nth parenthesized sub-expression, taken from REGS[N]. |
\-----*/

static int substitute_warned = 0;

static void
substitute (struct obstack *obs, const char *victim, const char *repl,
           struct re_registers *regs)
{
    int ch;
    __re_size_t ind;
    while (1)
    {
        const char *backslash = strchr (repl, '\\');
        if (!backslash)

```

```

    {
        obstack_grow (obs, repl, strlen (repl));
        return;
    }
obstack_grow (obs, repl, backslash - repl);
repl = backslash;
ch = *++repl;
switch (ch)
{
    case '0':
        if (!substitute_warned)
            {
                M4ERROR ((warning_status, 0, "\
Warning: \\0 will disappear, use \\& instead in replacements"));
                substitute_warned = 1;
            }
        /* Fall through. */

    case '&':
        obstack_grow (obs, victim + regs->start[0],
                     regs->end[0] - regs->start[0]);
        repl++;
        break;

    case '1': case '2': case '3': case '4': case '5': case '6':
    case '7': case '8': case '9':
        ind = ch - '0';
        if (regs->num_regs - 1 <= ind)
            M4ERROR ((warning_status, 0,
                     "Warning: sub-expression %d not present", ch));
        else if (regs->end[ch] > 0)
            obstack_grow (obs, victim + regs->start[ch],
                         regs->end[ch] - regs->start[ch]);
        repl++;
        break;

    case '\0':
        M4ERROR ((warning_status, 0,
                 "Warning: trailing \\ ignored in replacement"));
        return;

    default:
        obstack_1grow (obs, ch);
        repl++;
        break;
}
}
}

```

```

/*-----,
| Initialize regular expression variables. |
`-----*/

void
init_pattern_buffer (struct re_pattern_buffer *buf, struct re_registers *regs)
{
    buf->translate = NULL;
    buf->fastmap = NULL;
    buf->buffer = NULL;
    buf->allocated = 0;
    if (regs)
    {
        regs->start = NULL;
        regs->end = NULL;
    }
}

/*-----,
| Regular expression version of index. Given two arguments, expand |
| to the index of the first match of the second argument (a regexp) |
| in the first. Expand to -1 if here is no match. Given a third |
| argument, it changes the expansion to this argument.          |
`-----*/

static void
m4_regexp (struct obstack *obs, int argc, token_data **argv)
{
    const char *victim;      /* first argument */
    const char *regexp;     /* regular expression */
    const char *repl;       /* replacement string */

    struct re_pattern_buffer buf; /* compiled regular expression */
    struct re_registers regs;    /* for subexpression matches */
    const char *msg;           /* error message from re_compile_pattern */
    int startpos;             /* start position of match */
    int length;              /* length of first argument */

    if (bad_argc (argv[0], argc, 3, 4))
    {
        /* builtin(`regexp') is blank, but regexp(`abc') is 0. */
        if (argc == 2)
            shipout_int (obs, 0);
        return;
    }

    victim = TOKEN_DATA_TEXT (argv[1]);

```

```

regexp = TOKEN_DATA_TEXT (argv[2]);

init_pattern_buffer (&buf, &regs);
msg = re_compile_pattern (regexp, strlen (regexp), &buf);

if (msg != NULL)
{
    M4ERROR ((warning_status, 0,
              "bad regular expression: `%s': %s", regexp, msg));
    free_pattern_buffer (&buf, &regs);
    return;
}

length = strlen (victim);
/* Avoid overhead of allocating regs if we won't use it. */
startpos = re_search (&buf, victim, length, 0, length,
                      argc == 3 ? NULL : &regs);

if (startpos == -2)
    M4ERROR ((warning_status, 0,
              "error matching regular expression `%s'", regexp));
else if (argc == 3)
    shipout_int (obs, startpos);
else if (startpos >= 0)
{
    repl = TOKEN_DATA_TEXT (argv[3]);
    substitute (obs, victim, repl, &regs);
}

free_pattern_buffer (&buf, &regs);
}

/*-----
| Substitute all matches of a regexp occurring in a string. Each match of
| the second argument (a regexp) in the first argument is changed to the
| third argument, with \& substituted by the matched text, and \N
| substituted by the text matched by the Nth parenthesized sub-expression.
|-----*/

static void
m4_patsubst (struct obstack *obs, int argc, token_data **argv)
{
    const char *victim;      /* first argument */
    const char *regexp;     /* regular expression */

    struct re_pattern_buffer buf; /* compiled regular expression */
    struct re_registers regs;    /* for subexpression matches */
    const char *msg;         /* error message from re_compile_pattern */

```

```

int matchpos;          /* start position of match */
int offset;           /* current match offset */
int length;          /* length of first argument */

if (bad_argc (argv[0], argc, 3, 4))
{
    /* builtin(^patsubst') is blank, but patsubst(^ abc') is abc. */
    if (argc == 2)
        obstack_grow (obs, ARG (1), strlen (ARG (1)));
    return;
}

regexp = TOKEN_DATA_TEXT (argv[2]);

init_pattern_buffer (&buf, &regs);
msg = re_compile_pattern (regexp, strlen (regexp), &buf);

if (msg != NULL)
{
    M4ERROR ((warning_status, 0,
        "bad regular expression `%s': %s", regexp, msg));
    free (buf.buffer);
    return;
}

victim = TOKEN_DATA_TEXT (argv[1]);
length = strlen (victim);

offset = 0;
while (offset <= length)
{
    matchpos = re_search (&buf, victim, length,
        offset, length - offset, &regs);
    if (matchpos < 0)
    {
        /* Match failed -- either error or there is no match in the
           rest of the string, in which case the rest of the string is
           copied verbatim. */

        if (matchpos == -2)
            M4ERROR ((warning_status, 0,
                "error matching regular expression `%s'", regexp));
        else if (offset < length)
            obstack_grow (obs, victim + offset, length - offset);
        break;
    }
}

```

```

/* Copy the part of the string that was skipped by re_search (). */

if (matchpos > offset)
    obstack_grow (obs, victim + offset, matchpos - offset);

/* Handle the part of the string that was covered by the match. */

substitute (obs, victim, ARG (3), &regs);

/* Update the offset to the end of the match. If the regexp
   matched a null string, advance offset one more, to avoid
   infinite loops. */

offset = regs.end[0];
if (regs.start[0] == regs.end[0])
    obstack_1grow (obs, victim[offset++]);
}
obstack_1grow (obs, '\0');

free_pattern_buffer (&buf, &regs);
}

/* Finally, a placeholder builtin. This builtin is not installed by
   default, but when reading back frozen files, this is associated
   with any builtin we don't recognize (for example, if the frozen
   file was created with a changeword capable m4, but is then loaded
   by a different m4 that does not support changeword). This way, we
   can keep 'm4 -R' quiet in the common case that the user did not
   know or care about the builtin when the frozen file was created,
   while still flagging it as a potential error if an attempt is made
   to actually use the builtin. */

/*-----
| Issue a warning that this macro is a placeholder for an unsupported |
| builtin that was requested while reloading a frozen file.          |
\-----*/

void
m4_placeholder (struct obstack *obs M4_GNUC_UNUSED, int argc,
               token_data **argv)
{
    M4ERROR ((warning_status, 0, "\
builtin '%s' requested by frozen file is not supported", ARG (0)));
}

/*-----
| This function handles all expansion of user defined and predefined |
| macros. It is called with an obstack OBS, where the macros        |

```



| expansion will be placed, as an unfinished object. SYM points to |  
 | the macro definition, giving the expansion text. ARGV and ARGV |  
 | are the arguments, as usual. |  
 \-----\*/

```

void
expand_user_macro (struct obstack *obs, symbol *sym,
                   int argc, token_data **argv)
{
  const char *text = SYMBOL_TEXT (sym);
  int i;
  while (1)
    {
      const char *dollar = strchr (text, '$');
      if (!dollar)
        {
          obstack_grow (obs, text, strlen (text));
          return;
        }
      obstack_grow (obs, text, dollar - text);
      text = dollar;
      switch (*++text)
        {
          case '0': case '1': case '2': case '3': case '4':
          case '5': case '6': case '7': case '8': case '9':
            if (no_gnu_extensions)
              {
                i = *text++ - '0';
              }
            else
              {
                for (i = 0; isdigit (to_uchar (*text)); text++)
                  i = i*10 + (*text - '0');
              }
            if (i < argc)
              obstack_grow (obs, TOKEN_DATA_TEXT (argv[i]),
                           strlen (TOKEN_DATA_TEXT (argv[i])));
            break;

          case '#': /* number of arguments */
            shipout_int (obs, argc - 1);
            text++;
            break;

          case '*': /* all arguments */
          case '@': /* ... same, but quoted */
            dump_args (obs, argc, argv, " ", *text == '@');
            text++;
        }
    }

```

```

break;

default:
  obstack_1grow (obs, '$');
  break;
}
}
}

```

## 1.72 MIT Kerberos V5 1.11.1

### 1.72.1 Available under license :

[ NOTE: MIT has only incorporated the mechglue and spnego change, and not the incremental propagation changes. The filenames are different between the Sun and MIT sources. The actual MIT filenames appear in the top-level README file. Original text of Sun's LICENSE file follows. ]

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```

cmd/krb5/ipropl/ipropl.x
cmd/krb5/ipropl/ipropl_hdr.h
cmd/krb5/kadmin/server/ipropld_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c

```

lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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



lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

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

slave/kpropd\_rpc.c  
slave/kproplog.c

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/* @(#)clnt.h 2.1 88/07/29 4.0 RPCSRC; from 1.31 88/02/08 SMI*/
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\*/

/\* include/gssrpc/auth\_gss.h \*/

/\*

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/\* include/k5-base64.h - base64 declarations \*/

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*/

/*
* This prototype for k5-int.h (Krb5 internals include file)
* includes the user-visible definitions from krb5.h and then
* includes other definitions that are not user-visible but are
* required for compiling Kerberos internal routines.
*
* John Gilmore, Cygnus Support, Sat Jan 21 22:45:52 PST 1995
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## 1.77 ntp/sntp/libopts 4.2.8p10

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## 1.78 openldap 2.4.44

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\* @version 3.0 (December 2000)

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\*

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

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

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```

```
*/
```

```

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);

```

```

#endif
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef HAVE_POLL || !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfd_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#endif
#endif

```



```

/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

```

```

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

```

## 1.80 OpenSSL 1.0.2q

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## 1.84 pciutils 3.1.9 :2010-01-31 Martin Mares

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Written by: Philip Hazel  
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- \* Fix compiler to not make output executable.

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- \* Heuristic detection of sub-messages when printing unknown fields in text format.

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- \* Detect unordered\_map in stl\_hash.m4.

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- \* gzip/zlib I/O support.

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- \* Added generation of field number constants.

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- \* HPUX support.

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Evan Jones <evanj@mit.edu>

- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- \* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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## 1.94 pthread-stubs 0.3

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# Configuration validation subroutine script.

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# configuration script generated by Autoconf, you may include it under

# the same distribution terms that you use for the rest of that program.

# Please send patches to <config-patches@gnu.org>. Submit a context

# diff and a properly formatted ChangeLog entry.

#

# Configuration subroutine to validate and canonicalize a configuration type.

# Supply the specified configuration type as an argument.

# If it is invalid, we print an error message on stderr and exit with code 1.

# Otherwise, we print the canonical config type on stdout and succeed.

```
# This file is supposed to be the same for all GNU packages
# and recognize all the CPU types, system types and aliases
# that are meaningful with *any* GNU software.
# Each package is responsible for reporting which valid configurations
# it does not support. The user should be able to distinguish
# a failure to support a valid configuration from a meaningless
# configuration.

# The goal of this file is to map all the various variations of a given
# machine specification into a single specification in the form:
# CPU_TYPE-MANUFACTURER-OPERATING_SYSTEM
# or in some cases, the newer four-part form:
# CPU_TYPE-MANUFACTURER-KERNEL-OPERATING_SYSTEM
# It is wrong to echo any other type of specification.
#!/bin/sh
# install - install a program, script, or datafile

scriptversion=2003-09-24.23

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#
```

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

# set DOITPROG to echo to test this script
Classes to support streaming video input (grabbing) and output.
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@file arch.h

@brief Various architecture definitions Speex

\*/

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/\*\*

@file speex\_preprocess.h

@brief Speex preprocessor

\*/

/\*

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\*/

//

// stund/udp.h

//

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```

```
/* A Bison parser, made by GNU Bison 2.6.4. */
```

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

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/* As a special exception, you may create a larger work that contains  
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Version 3, 29 June 2007

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\*

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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.

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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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 (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.

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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
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|               |           |          |     |     |
|---------------|-----------|----------|-----|-----|
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF | yes |
| 2.1.2         | 2.1.1     | 2002     | PSF | yes |
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes             |
| 1.6            | 1.5.2        | 2000      | CNRI       | no              |
| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6          | 2001      | CNRI       | no              |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no              |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes             |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes             |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes             |

|               |       |          |     |     |  |
|---------------|-------|----------|-----|-----|--|
| 2.1.3         | 2.1.2 | 2002     | PSF | yes |  |
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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)`  
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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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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

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-----

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Select kqueue

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SipHash24

-----

The file `:file:`Python/pyhash.c`` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves ([superfjord/cryptauth/siphash24/little](https://github.com/superfjord/cryptauth/blob/master/siphash24/little.c))

djb ([superfjord/cryptauth/siphash24/little2](https://github.com/superfjord/cryptauth/blob/master/siphash24/little2.c))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

-----

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available

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cfuhash

-----

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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# 1.100 smartmontools 6.2

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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# 1.104 swig 2.0.7

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```
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```

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```
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```

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## 1.112 vmware-hypervisor-port-check Jan 5, 2015

### 1.112.1 Available under license :

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`common_audio/signal_processing/spl_sqrt_floor_arm.S`

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`modules/audio_coding/codecs/g711/main/source/g711.h`

`modules/audio_coding/codecs/g722/main/source/g722_decode.c`

`modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h`

`modules/audio_coding/codecs/g722/main/source/g722_encode.c`

`modules/audio_coding/codecs/isac/main/source/fft.c`

`modules/audio_device/mac/portaudio/pa_memorybarrier.h`

`modules/audio_device/mac/portaudio/pa_ringbuffer.c`

`modules/audio_device/mac/portaudio/pa_ringbuffer.h`

`modules/audio_processing/aec/aec_rdfc.c`

`system_wrappers/source/condition_variable_event_win.cc`

`system_wrappers/source/set_thread_name_win.h`

`system_wrappers/source/spreadsortlib/constants.hpp`

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\*

\* From: Wilco Dijkstra <[Wilco.Dijkstra@ntlworld.com](mailto:Wilco.Dijkstra@ntlworld.com)>

\* Date: Fri, Jun 24, 2011 at 3:20 AM

\* Subject: Re: sqrt routine

\* To: Kevin Ma <[kma@google.com](mailto:kma@google.com)>

\* Hi Kevin,  
\* Thanks for asking. Those routines are public domain (originally posted to  
\* comp.sys.arm a long time ago), so you can use them freely for any purpose.  
\* Cheers,  
\* Wilco  
\*  
\* ----- Original Message -----  
\* From: "Kevin Ma" <kma@google.com>  
\* To: <Wilco.Dijkstra@ntlworld.com>  
\* Sent: Thursday, June 23, 2011 11:44 PM  
\* Subject: Fwd: sqrt routine  
\* Hi Wilco,  
\* I saw your sqrt routine from several web sites, including  
\* <http://www.finesse.demon.co.uk/steven/sqrt.html>.  
\* Just wonder if there's any copyright information with your Successive  
\* approximation routines, or if I can freely use it for any purpose.  
\* Thanks.  
\* Kevin  
\*/

-----  
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modules/audio\_coding/codecs/g711/main/source/g711.h

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\* g722\_decode.c - The ITU G.722 codec, decode part.  
\*  
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modules/audio\_device/mac/portaudio/pa\_ringbuffer.c  
modules/audio\_device/mac/portaudio/pa\_ringbuffer.h

License:

```
/*
 * $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
 * Portable Audio I/O Library
 * Memory barrier utilities
 *
 * Author: Bjorn Roche, XO Audio, LLC
 *
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 * For more information see: http://www.portaudio.com
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 */
```

```
/*
 * $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
 * Portable Audio I/O Library
 * Ring Buffer utility.
 *
 * Author: Phil Burk, http://www.softsynth.com
 * modified for SMP safety on Mac OS X by Bjorn Roche
 * modified for SMP safety on Linux by Leland Lucius
 * also, allowed for const where possible
 * modified for multiple-byte-sized data elements by Sven Fischer
 *
 * Note that this is safe only for a single-thread reader and a
 * single-thread writer.
 *
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modules/audio\_processing/aec/aec\_rdfc.c

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Source:

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

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```
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```

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LICENSE: GPLv2+ & GPL-3.0-with-autoconf-exception & LGPLv2.1+ & PD  
PR: r0  
PV: 5.2.2



/\* Getopt for GNU.

NOTE: getopt is now part of the C library, so if you don't know what "Keep this file name-space clean" means, talk to drepper@gnu.org before changing it!

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```
#ifndef _LIBC
```

```
# include <config.h>
```

```
#endif
```

```
#include "getopt.h"
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
#include <unistd.h>
```

```
#ifdef __VMS
```

```
# include <unixlib.h>
```

```
#endif
```

```
/* Completely disable NLS for getopt. We won't include translations for it anyway. If the system lacks getopt_long, missing translations probably aren't a problem. */
```

```
/*
```

```
#ifdef _LIBC
```

```
# include <libintl.h>
```

```
#else
```

```
# include "gettext.h"
```

```
# define _(msgid) gettext (msgid)
```

```
#endif
```

```
*/
```

```

#define _(msgid) (msgid)

#if defined _LIBC && defined USE_IN_LIBIO
#include <wchar.h>
#endif

#ifndef attribute_hidden
#define attribute_hidden
#endif

/* Unlike standard Unix `getopt', functions like `getopt_long'
let the user intersperse the options with the other arguments.

As `getopt_long' works, it permutes the elements of ARGV so that,
when it is done, all the options precede everything else. Thus
all application programs are extended to handle flexible argument order.

Using `getopt' or setting the environment variable POSIXLY_CORRECT
disables permutation.
Then the application's behavior is completely standard.

GNU application programs can use a third alternative mode in which
they can distinguish the relative order of options and other arguments. */

#include "getopt_int.h"

/* For communication from `getopt' to the caller.
When `getopt' finds an option that takes an argument,
the argument value is returned here.
Also, when `ordering' is RETURN_IN_ORDER,
each non-option ARGV-element is returned here. */

char *optarg;

/* Index in ARGV of the next element to be scanned.
This is used for communication to and from the caller
and for communication between successive calls to `getopt'.

On entry to `getopt', zero means this is the first call; initialize.

When `getopt' returns -1, this is the index of the first of the
non-option elements that the caller should itself scan.

Otherwise, `optind' communicates from one call to the next
how much of ARGV has been scanned so far. */

/* 1003.2 says this must be 1 before any call. */
int optind = 1;

```

```

/* Callers store zero here to inhibit the error message
   for unrecognized options. */

int opterr = 1;

/* Set to an option character which was unrecognized.
   This must be initialized on some systems to avoid linking in the
   system's own getopt implementation. */

int optopt = '?';

/* Keep a global copy of all internal members of getopt_data. */

static struct _getopt_data getopt_data;

#ifdef HAVE_DECL_GETENV && !HAVE_DECL_GETENV
extern char *getenv ();
#endif

#ifdef _LIBC
/* Stored original parameters.
   XXX This is no good solution. We should rather copy the args so
   that we can compare them later. But we must not use malloc(3). */
extern int __libc_argc;
extern char **__libc_argv;

/* Bash 2.0 gives us an environment variable containing flags
   indicating ARGV elements that should not be considered arguments. */

# ifdef USE_NONOPTION_FLAGS
/* Defined in getopt_init.c */
extern char *__getopt_nonoption_flags;
# endif

# ifdef USE_NONOPTION_FLAGS
#  define SWAP_FLAGS(ch1, ch2) \
    if (d->__nonoption_flags_len > 0) \
    { \
        char __tmp = __getopt_nonoption_flags[ch1]; \
        __getopt_nonoption_flags[ch1] = __getopt_nonoption_flags[ch2]; \
        __getopt_nonoption_flags[ch2] = __tmp; \
    } \
# else
#  define SWAP_FLAGS(ch1, ch2)
# endif
#else /* !_LIBC */

```

```

#define SWAP_FLAGS(ch1, ch2)
#endif /* _LIBC */

/* Exchange two adjacent subsequences of ARGV.
   One subsequence is elements [first_nonopt,last_nonopt)
   which contains all the non-options that have been skipped so far.
   The other is elements [last_nonopt,optind), which contains all
   the options processed since those non-options were skipped.

   `first_nonopt' and `last_nonopt' are relocated so that they describe
   the new indices of the non-options in ARGV after they are moved. */

static void
exchange (char **argv, struct _getopt_data *d)
{
  int bottom = d->__first_nonopt;
  int middle = d->__last_nonopt;
  int top = d->optind;
  char *tem;

  /* Exchange the shorter segment with the far end of the longer segment.
     That puts the shorter segment into the right place.
     It leaves the longer segment in the right place overall,
     but it consists of two parts that need to be swapped next. */

  #if defined _LIBC && defined USE_NONOPTION_FLAGS
  /* First make sure the handling of the `__getopt_nonoption_flags'
     string can work normally. Our top argument must be in the range
     of the string. */
  if (d->__nonoption_flags_len > 0 && top >= d->__nonoption_flags_max_len)
  {
    /* We must extend the array. The user plays games with us and
       presents new arguments. */
    char *new_str = malloc (top + 1);
    if (new_str == NULL)
      d->__nonoption_flags_len = d->__nonoption_flags_max_len = 0;
    else
    {
      memset (__mempcpy (new_str, __getopt_nonoption_flags,
        d->__nonoption_flags_max_len),
        '\0', top + 1 - d->__nonoption_flags_max_len);
      d->__nonoption_flags_max_len = top + 1;
      __getopt_nonoption_flags = new_str;
    }
  }
  #endif

  while (top > middle && middle > bottom)

```

```

{
    if (top - middle > middle - bottom)
    {
        /* Bottom segment is the short one. */
        int len = middle - bottom;
        register int i;

        /* Swap it with the top part of the top segment. */
        for (i = 0; i < len; i++)
        {
            tem = argv[bottom + i];
            argv[bottom + i] = argv[top - (middle - bottom) + i];
            argv[top - (middle - bottom) + i] = tem;
            SWAP_FLAGS (bottom + i, top - (middle - bottom) + i);
        }
        /* Exclude the moved bottom segment from further swapping. */
        top -= len;
    }
    else
    {
        /* Top segment is the short one. */
        int len = top - middle;
        register int i;

        /* Swap it with the bottom part of the bottom segment. */
        for (i = 0; i < len; i++)
        {
            tem = argv[bottom + i];
            argv[bottom + i] = argv[middle + i];
            argv[middle + i] = tem;
            SWAP_FLAGS (bottom + i, middle + i);
        }
        /* Exclude the moved top segment from further swapping. */
        bottom += len;
    }
}

/* Update records for the slots the non-options now occupy. */

d->__first_nonopt += (d->optind - d->__last_nonopt);
d->__last_nonopt = d->optind;
}

/* Initialize the internal data when the first call is made. */

static const char *
_getopt_initialize (int argc, char **argv, const char *optstring,
                  int posixly_correct, struct _getopt_data *d)

```

```

{
/* Start processing options with ARGV-element 1 (since ARGV-element 0
   is the program name); the sequence of previously skipped
   non-option ARGV-elements is empty. */

d->__first_nonopt = d->__last_nonopt = d->optind;

d->__nextchar = NULL;

d->__posixly_correct = posixly_correct || !!getenv ("POSIXLY_CORRECT");

/* Determine how to handle the ordering of options and nonoptions. */

if (optstring[0] == '-')
{
d->__ordering = RETURN_IN_ORDER;
++optstring;
}
else if (optstring[0] == '+')
{
d->__ordering = REQUIRE_ORDER;
++optstring;
}
else if (d->__posixly_correct)
d->__ordering = REQUIRE_ORDER;
else
d->__ordering = PERMUTE;

#if defined _LIBC && defined USE_NONOPTION_FLAGS
if (!d->__posixly_correct
    && argc == __libc_argc && argv == __libc_argv)
{
if (d->__nonoption_flags_max_len == 0)
{
if (__getopt_nonoption_flags == NULL
    || __getopt_nonoption_flags[0] == '\0')
d->__nonoption_flags_max_len = -1;
else
{
const char *orig_str = __getopt_nonoption_flags;
int len = d->__nonoption_flags_max_len = strlen (orig_str);
if (d->__nonoption_flags_max_len < argc)
d->__nonoption_flags_max_len = argc;
__getopt_nonoption_flags =
(char *) malloc (d->__nonoption_flags_max_len);
if (__getopt_nonoption_flags == NULL)
d->__nonoption_flags_max_len = -1;
else

```

```

memset (__mempcpy (__getopt_nonoption_flags, orig_str, len),
        '\0', d->__nonoption_flags_max_len - len);
    }
}
d->__nonoption_flags_len = d->__nonoption_flags_max_len;
}
else
    d->__nonoption_flags_len = 0;
#endif

return optstring;
}

```

/\* Scan elements of ARGV (whose length is ARGC) for option characters given in OPTSTRING.

If an element of ARGV starts with '-', and is not exactly "-" or "--", then it is an option element. The characters of this element (aside from the initial '-') are option characters. If `getopt' is called repeatedly, it returns successively each of the option characters from each of the option elements.

If `getopt' finds another option character, it returns that character, updating `optind' and `nextchar' so that the next call to `getopt' can resume the scan with the following option character or ARGV-element.

If there are no more option characters, `getopt' returns -1. Then `optind' is the index in ARGV of the first ARGV-element that is not an option. (The ARGV-elements have been permuted so that those that are not options now come last.)

OPTSTRING is a string containing the legitimate option characters. If an option character is seen that is not listed in OPTSTRING, return '?' after printing an error message. If you set `opterr' to zero, the error message is suppressed but we still return '?'.

If a char in OPTSTRING is followed by a colon, that means it wants an arg, so the following text in the same ARGV-element, or the text of the following ARGV-element, is returned in `optarg'. Two colons mean an option that wants an optional arg; if there is text in the current ARGV-element, it is returned in `optarg', otherwise `optarg' is set to zero.

If OPTSTRING starts with `-' or `+', it requests different methods of handling the non-option ARGV-elements. See the comments about RETURN\_IN\_ORDER and REQUIRE\_ORDER, above.

Long-named options begin with `--' instead of `-'. Their names may be abbreviated as long as the abbreviation is unique

or is an exact match for some defined option. If they have an argument, it follows the option name in the same ARGV-element, separated from the option name by a '=', or else the in next ARGV-element. When 'getopt' finds a long-named option, it returns 0 if that option's 'flag' field is nonzero, the value of the option's 'val' field if the 'flag' field is zero.

LONGOPTS is a vector of 'struct option' terminated by an element containing a name which is zero.

LONGIND returns the index in LONGOPT of the long-named option found. It is only valid when a long-named option has been found by the most recent call.

If LONG\_ONLY is nonzero, '-' as well as '--' can introduce long-named options.

If POSIXLY\_CORRECT is nonzero, behave as if the POSIXLY\_CORRECT environment variable were set. \*/

```
int
_getopt_internal_r (int argc, char **argv, const char *optstring,
    const struct option *longopts, int *longind,
    int long_only, int posixly_correct, struct _getopt_data *d)
{
    int print_errors = d->opterr;
    if (optstring[0] == ':')
        print_errors = 0;

    if (argc < 1)
        return -1;

    d->optarg = NULL;

    if (d->optind == 0 || !d->__initialized)
    {
        if (d->optind == 0)
            d->optind = 1; /* Don't scan ARGV[0], the program name. */
        optstring = _getopt_initialize (argc, argv, optstring,
            posixly_correct, d);
        d->__initialized = 1;
    }

    /* Test whether ARGV[optind] points to a non-option argument.
       Either it does not have option syntax, or there is an environment flag
       from the shell indicating it is not an option. The later information
       is only used when the used in the GNU libc. */
    #if defined _LIBC && defined USE_NONOPTION_FLAGS
```



```

# define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '\0' \
    || (d->optind < d->__nonoption_flags_len \
    && __getopt_nonoption_flags[d->optind] == '1'))
#else
# define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '\0')
#endif

if (d->__nextchar == NULL || *d->__nextchar == '\0')
{
    /* Advance to the next ARGV-element. */

    /* Give FIRST_NONOPT & LAST_NONOPT rational values if OPTIND has been
    moved back by the user (who may also have changed the arguments). */
    if (d->__last_nonopt > d->optind)
d->__last_nonopt = d->optind;
    if (d->__first_nonopt > d->optind)
d->__first_nonopt = d->optind;

    if (d->__ordering == PERMUTE)
{
    /* If we have just processed some options following some non-options,
    exchange them so that the options come first. */

    if (d->__first_nonopt != d->__last_nonopt
        && d->__last_nonopt != d->optind)
exchange ((char **) argv, d);
    else if (d->__last_nonopt != d->optind)
d->__first_nonopt = d->optind;

    /* Skip any additional non-options
    and extend the range of non-options previously skipped. */

    while (d->optind < argc && NONOPTION_P)
d->optind++;
d->__last_nonopt = d->optind;
}

    /* The special ARGV-element `--' means premature end of options.
    Skip it like a null option,
    then exchange with previous non-options as if it were an option,
    then skip everything else like a non-option. */

    if (d->optind != argc && !strcmp (argv[d->optind], "--"))
{
d->optind++;

    if (d->__first_nonopt != d->__last_nonopt
        && d->__last_nonopt != d->optind)

```

```

    exchange ((char **) argv, d);
else if (d->__first_nonopt == d->__last_nonopt)
    d->__first_nonopt = d->optind;
d->__last_nonopt = argc;

d->optind = argc;
}

/* If we have done all the ARGV-elements, stop the scan
and back over any non-options that we skipped and permuted. */

if (d->optind == argc)
{
/* Set the next-arg-index to point at the non-options
that we previously skipped, so the caller will digest them. */
if (d->__first_nonopt != d->__last_nonopt)
    d->optind = d->__first_nonopt;
return -1;
}

/* If we have come to a non-option and did not permute it,
either stop the scan or describe it to the caller and pass it by. */

if (NONOPTION_P)
{
if (d->__ordering == REQUIRE_ORDER)
    return -1;
d->optarg = argv[d->optind++];
return 1;
}

/* We have found another option-ARGV-element.
Skip the initial punctuation. */

d->__nextchar = (argv[d->optind] + 1
+ (longopts != NULL && argv[d->optind][1] == '-'));
}

```

/\* Decode the current option-ARGV-element. \*/

/\* Check whether the ARGV-element is a long option.

If long\_only and the ARGV-element has the form "-f", where f is a valid short option, don't consider it an abbreviated form of a long option that starts with f. Otherwise there would be no way to give the -f short option.

On the other hand, if there's a long option "fubar" and

the ARGV-element is "-fu", do consider that an abbreviation of the long option, just like "--fu", and not "-f" with arg "u".

This distinction seems to be the most useful approach. \*/

```
if (longopts != NULL
    && (argv[d->optind][1] == '-')
    || (long_only && (argv[d->optind][2]
        || !strchr (optstring, argv[d->optind][1])))
    {
    char *nameend;
    const struct option *p;
    const struct option *pfound = NULL;
    int exact = 0;
    int ambig = 0;
    int indfound = -1;
    int option_index;

    for (nameend = d->__nextchar; *nameend && *nameend != '='; nameend++)
/* Do nothing. */;

    /* Test all long options for either exact match
or abbreviated matches. */
    for (p = longopts, option_index = 0; p->name; p++, option_index++)
if (!strncmp (p->name, d->__nextchar, nameend - d->__nextchar))
    {
    if ((unsigned int) (nameend - d->__nextchar)
== (unsigned int) strlen (p->name))
        {
/* Exact match found. */
        pfound = p;
        indfound = option_index;
        exact = 1;
        break;
        }
    else if (pfound == NULL)
        {
/* First nonexact match found. */
        pfound = p;
        indfound = option_index;
        }
    else if (long_only
        || pfound->has_arg != p->has_arg
        || pfound->flag != p->flag
        || pfound->val != p->val)
/* Second or later nonexact match found. */
        ambig = 1;
    }
}
```

```

    if (ambig && !exact)
    {
        if (print_errors)
        {
#ifdef defined _LIBC && defined USE_IN_LIBIO
            char *buf;

            if (__asprintf (&buf, _("%s: option `%s' is ambiguous\n"),
                argv[0], argv[d->optind]) >= 0)
            {
                _IO_flockfile (stderr);

                int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

                __fxprintf (NULL, "%s", buf);

                ((_IO_FILE *) stderr)->_flags2 = old_flags2;
                _IO_funlockfile (stderr);

                free (buf);
            }
#else
            fprintf (stderr, _("%s: option `%s' is ambiguous\n"),
                argv[0], argv[d->optind]);
#endif
        }
        d->__nextchar += strlen (d->__nextchar);
        d->optind++;
        d->optopt = 0;
        return '?';
    }

    if (pfound != NULL)
    {
        option_index = indfound;
        d->optind++;
        if (*nameend)
        {
            /* Don't test has_arg with >, because some C compilers don't
            allow it to be used on enums. */
            if (pfound->has_arg)
                d->optarg = nameend + 1;
            else
            {
                if (print_errors)
                {

```

```

#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;
    int n;
#endif

    if (argv[d->optind - 1][1] == '-')
    {
        /* --option */
#if defined _LIBC && defined USE_IN_LIBIO
        n = __asprintf (&buf, _("\\
%s: option `--%s' doesn't allow an argument\\n"),
            argv[0], pfound->name);
#else
        fprintf (stderr, _("\\
%s: option `--%s' doesn't allow an argument\\n"),
            argv[0], pfound->name);
#endif
    }
    else
    {
        /* +option or -option */
#if defined _LIBC && defined USE_IN_LIBIO
        n = __asprintf (&buf, _("\\
%s: option `%c%s' doesn't allow an argument\\n"),
            argv[0], argv[d->optind - 1][0],
            pfound->name);
#else
        fprintf (stderr, _("\\
%s: option `%c%s' doesn't allow an argument\\n"),
            argv[0], argv[d->optind - 1][0],
            pfound->name);
#endif
    }
#endif

#if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2
            |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);
    }
#endif

```

```

    free (buf);
}
#endif
}

d->__nextchar += strlen (d->__nextchar);

d->optopt = pfound->val;
return '?';
}
}
else if (pfound->has_arg == 1)
{
    if (d->optind < argc)
d->optarg = argv[d->optind++];
    else
    {
        if (print_errors)
        {
#ifdef _LIBC && defined USE_IN_LIBIO
            char *buf;

            if (__asprintf (&buf, _("
%s: option `%'s' requires an argument\n"),
                argv[0], argv[d->optind - 1]) >= 0)
            {
                _IO_flockfile (stderr);

                int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                ((_IO_FILE *) stderr)->_flags2
                    |= _IO_FLAGS2_NOTCANCEL;

                __fxprintf (NULL, "%s", buf);

                ((_IO_FILE *) stderr)->_flags2 = old_flags2;
                _IO_funlockfile (stderr);

                free (buf);
            }
#endif
        }
    }
}
else
    fprintf (stderr,
        _("
%s: option `%'s' requires an argument\n"),
        argv[0], argv[d->optind - 1]);
#endif
}
d->__nextchar += strlen (d->__nextchar);
d->optopt = pfound->val;
return optstring[0] == ':' ? ':' : '?';

```

```

}
}
d->__nextchar += strlen (d->__nextchar);
if (longind != NULL)
    *longind = option_index;
if (pfound->flag)
{
    *(pfound->flag) = pfound->val;
    return 0;
}
return pfound->val;
}

/* Can't find it as a long option. If this is not getopt_long_only,
or the option starts with '-' or is not a valid short
option, then it's an error.
Otherwise interpret it as a short option. */
if (!long_only || argv[d->optind][1] == '-'
|| strchr (optstring, *d->__nextchar) == NULL)
{
    if (print_errors)
    {
#ifdef _LIBC && defined USE_IN_LIBIO
        char *buf;
        int n;
#endif

        if (argv[d->optind][1] == '-')
        {
            /* --option */
#ifdef _LIBC && defined USE_IN_LIBIO
            n = __asprintf (&buf, _("%s: unrecognized option `--%s'\n"),
                argv[0], d->__nextchar);
            #else
            fprintf (stderr, _("%s: unrecognized option `--%s'\n"),
                argv[0], d->__nextchar);
            #endif
        }
        else
        {
            /* +option or -option */
#ifdef _LIBC && defined USE_IN_LIBIO
            n = __asprintf (&buf, _("%s: unrecognized option `%c%s'\n"),
                argv[0], argv[d->optind][0], d->__nextchar);
            #else
            fprintf (stderr, _("%s: unrecognized option `%c%s'\n"),
                argv[0], argv[d->optind][0], d->__nextchar);
            #endif
        }
    }
}

```

```

}

#if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#endif
    }
    d->__nextchar = (char *) "";
    d->optind++;
    d->optopt = 0;
    return '?';
}
}

/* Look at and handle the next short option-character. */

{
    char c = *d->__nextchar++;
    char *temp = strchr (optstring, c);

    /* Increment `optind' when we start to process its last character. */
    if (*d->__nextchar == '\0')
        ++d->optind;

    if (temp == NULL || c == ':')
    {
        if (print_errors)
        {
            #if defined _LIBC && defined USE_IN_LIBIO
                char *buf;
                int n;
            #endif
        }

        if (d->__posixly_correct)
        {
            /* 1003.2 specifies the format of this message. */

```



```

#if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("%s: illegal option -- %c\n"),
        argv[0], c);
#else
    fprintf (stderr, _("%s: illegal option -- %c\n"), argv[0], c);
#endif
    }
    else
    {
#if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("%s: invalid option -- %c\n"),
        argv[0], c);
#else
    fprintf (stderr, _("%s: invalid option -- %c\n"), argv[0], c);
#endif
    }

#if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#endif
    }
    d->optopt = c;
    return '?';
    }
    /* Convenience. Treat POSIX -W foo same as long option --foo */
    if (temp[0] == 'W' && temp[1] == ':')
    {
        char *nameend;
        const struct option *p;
        const struct option *pfound = NULL;
        int exact = 0;
        int ambig = 0;
        int indfound = 0;
        int option_index;

```

```

/* This is an option that requires an argument. */
if (*d->__nextchar != '\0')
{
    d->optarg = d->__nextchar;
    /* If we end this ARGV-element by taking the rest as an arg,
       we must advance to the next element now. */
    d->optind++;
}
else if (d->optind == argc)
{
    if (print_errors)
    {
        /* 1003.2 specifies the format of this message. */
#ifdef defined _LIBC && defined USE_IN_LIBIO
        char *buf;

        if (__asprintf (&buf,
            _("%s: option requires an argument -- %c\n"),
            argv[0], c) >= 0)
        {
            _IO_flockfile (stderr);

            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
            ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

            __fxprintf (NULL, "%s", buf);

            ((_IO_FILE *) stderr)->_flags2 = old_flags2;
            _IO_funlockfile (stderr);

            free (buf);
        }
#endif
    }
}
else
    fprintf (stderr, _("%s: option requires an argument -- %c\n"),
        argv[0], c);
#endif
}
d->optopt = c;
if (optstring[0] == ':')
    c = ':';
else
    c = '?';
return c;
}
else
    /* We already incremented `d->optind' once;
       increment it again when taking next ARGV-elt as argument. */
    d->optarg = argv[d->optind++];

```

```

/* optarg is now the argument, see if it's in the
   table of longopts. */

for (d->__nextchar = nameend = d->optarg; *nameend && *nameend != '=';
     nameend++)
/* Do nothing. */ ;

/* Test all long options for either exact match
   or abbreviated matches. */
for (p = longopts, option_index = 0; p->name; p++, option_index++)
if (!strcmp (p->name, d->__nextchar, nameend - d->__nextchar))
{
    if (((unsigned int) (nameend - d->__nextchar) == strlen (p->name))
        {
            /* Exact match found. */
            pfound = p;
            indfound = option_index;
            exact = 1;
            break;
        }
        else if (pfound == NULL)
        {
            /* First nonexact match found. */
            pfound = p;
            indfound = option_index;
        }
        else
            /* Second or later nonexact match found. */
            ambig = 1;
    }
if (ambig && !exact)
{
    if (print_errors)
    {
#ifdef defined _LIBC && defined USE_IN_LIBIO
        char *buf;

        if (__asprintf (&buf, _("%s: option `-%W %s' is ambiguous\n"),
            argv[0], argv[d->optind]) >= 0)
        {
            _IO_flockfile (stderr);

            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
            ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

            __fxprintf (NULL, "%s", buf);

```

```

((__IO_FILE *) stderr)->_flags2 = old_flags2;
_IO_funlockfile (stderr);

    free (buf);
}
#else
fprintf (stderr, _("%s: option `-%s' is ambiguous\n"),
        argv[0], argv[d->optind]);
#endif
}
d->__nextchar += strlen (d->__nextchar);
d->optind++;
return '?';
}
if (pfound != NULL)
{
    option_index = indfound;
    if (*nameend)
    {
        /* Don't test has_arg with >, because some C compilers don't
        allow it to be used on enums. */
        if (pfound->has_arg)
            d->optarg = nameend + 1;
        else
        {
            if (print_errors)
            {
#ifdef _LIBC && defined USE_IN_LIBIO
                char *buf;

                if (__asprintf (&buf, _("\
%s: option `-%s' doesn't allow an argument\n"),
                    argv[0], pfound->name) >= 0)
                {
                    _IO_flockfile (stderr);

                    int old_flags2 = ((__IO_FILE *) stderr)->_flags2;
                    ((__IO_FILE *) stderr)->_flags2
                        |= _IO_FLAGS2_NOTCANCEL;

                    __fxprintf (NULL, "%s", buf);

                    ((__IO_FILE *) stderr)->_flags2 = old_flags2;
                    _IO_funlockfile (stderr);

                    free (buf);
                }
            }
#endif
        }
    }
}
#endif

```

```

    fprintf (stderr, _("
%s: option '-W %s' doesn't allow an argument\n"),
        argv[0], pfound->name);
#endif
    }

    d->__nextchar += strlen (d->__nextchar);
    return '?';
}
}
else if (pfound->has_arg == 1)
    {
if (d->optind < argc)
    d->optarg = argv[d->optind++];
else
    {
        if (print_errors)
            {
#ifdef defined _LIBC && defined USE_IN_LIBIO
            char *buf;

            if (__asprintf (&buf, _("
%s: option '%s' requires an argument\n"),
                argv[0], argv[d->optind - 1]) >= 0)
                {
                    _IO_flockfile (stderr);

                    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                    ((_IO_FILE *) stderr)->_flags2
                        |= _IO_FLAGS2_NOTCANCEL;

                    __fxprintf (NULL, "%s", buf);

                    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
                    _IO_funlockfile (stderr);

                    free (buf);
                }
#endif
        }
#endif
    }
}
else
    fprintf (stderr,
        _("%s: option '%s' requires an argument\n"),
        argv[0], argv[d->optind - 1]);
#endif
    }
    d->__nextchar += strlen (d->__nextchar);
    return optstring[0] == ':' ? ':' : '?';
}
}

```

```

d->__nextchar += strlen (d->__nextchar);
if (longind != NULL)
    *longind = option_index;
if (pfound->flag)
    {
*(pfound->flag) = pfound->val;
return 0;
    }
    return pfound->val;
}
d->__nextchar = NULL;
return 'W'; /* Let the application handle it. */
}
if (temp[1] == ':')
    {
if (temp[2] == ':')
    {
/* This is an option that accepts an argument optionally. */
if (*d->__nextchar != '\0')
    {
d->optarg = d->__nextchar;
d->optind++;
    }
else
    d->optarg = NULL;
d->__nextchar = NULL;
    }
else
    {
/* This is an option that requires an argument. */
if (*d->__nextchar != '\0')
    {
d->optarg = d->__nextchar;
/* If we end this ARGV-element by taking the rest as an arg,
we must advance to the next element now. */
d->optind++;
    }
else if (d->optind == argc)
    {
if (print_errors)
    {
/* 1003.2 specifies the format of this message. */
#if defined _LIBC && defined USE_IN_LIBIO
char *buf;

if (__asprintf (&buf, _("
%s: option requires an argument -- %c\n"),
argv[0], c) >= 0)

```

```

    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#else
    fprintf (stderr,
            _("%s: option requires an argument -- %c\n"),
            argv[0], c);
#endif
    }
    d->optopt = c;
    if (optstring[0] == ':')
        c = ':';
    else
        c = '?';
    }
    else
        /* We already incremented `optind' once;
        increment it again when taking next ARGV-elt as argument. */
        d->optarg = argv[d->optind++];
        d->__nextchar = NULL;
    }
    }
    return c;
}
}

int
_getopt_internal (int argc, char **argv, const char *optstring,
                 const struct option *longopts, int *longind,
                 int long_only, int posixly_correct)
{
    int result;

    getopt_data.optind = optind;
    getopt_data.opterr = opterr;

    result = _getopt_internal_r (argc, argv, optstring, longopts, longind,
                                long_only, posixly_correct, &getopt_data);
}

```

```

optind = getopt_data.optind;
optarg = getopt_data.optarg;
optopt = getopt_data.optopt;

return result;
}

/* glibc gets a LSB-compliant getopt.
   Standalone applications get a POSIX-compliant getopt. */
#ifdef _LIBC
enum { POSIXLY_CORRECT = 0 };
#else
enum { POSIXLY_CORRECT = 1 };
#endif

int
getopt (int argc, char *const *argv, const char *optstring)
{
return _getopt_internal (argc, (char **) argv, optstring, NULL, NULL, 0,
    POSIXLY_CORRECT);
}

#ifdef TEST

/* Compile with -DTEST to make an executable for use in testing
   the above definition of `getopt'. */

int
main (int argc, char **argv)
{
int c;
int digit_optind = 0;

while (1)
{
int this_option_optind = optind ? optind : 1;

c = getopt (argc, argv, "abc:d:0123456789");
if (c == -1)
break;

switch (c)
{
case '0':
case '1':
case '2':

```



```

case '3':
case '4':
case '5':
case '6':
case '7':
case '8':
case '9':
    if (digit_optind != 0 && digit_optind != this_option_optind)
        printf ("digits occur in two different argv-elements.\n");
    digit_optind = this_option_optind;
    printf ("option %c\n", c);
    break;

case 'a':
    printf ("option a\n");
    break;

case 'b':
    printf ("option b\n");
    break;

case 'c':
    printf ("option c with value ` %s\n", optarg);
    break;

case '?':
    break;

default:
    printf ("?? getopt returned character code 0%o ??\n", c);
}
}

if (optind < argc)
{
    printf ("non-option ARGV-elements: ");
    while (optind < argc)
printf ("%s ", argv[optind++]);
    printf ("\n");
}

exit (0);
}
#endif /* TEST */

```

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Version 2.1, February 1999

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=====

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## 1.115 Zlib 1.2.11

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

## HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny ([kenny@m.cs.uiuc.edu](mailto: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](mailto:brazile@diamond.bbn.com)) originally supplied the ULTRIX code.

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

Jesper Peterson ([jep@mtiame.mtia.oz.au](mailto:jep@mtiame.mtia.oz.au)), Michel Schinz, and

Martin Tauchmann ([martintauchmann@bigfoot.com](mailto:martintauchmann@bigfoot.com)) supplied the Amiga port.

Thomas Funke ([thf@zelator.in-berlin.de\(?\)](mailto:thf@zelator.in-berlin.de(?))) and

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

Douglas Steel ([doug@wg.icl.co.uk](mailto:doug@wg.icl.co.uk)) provided ICL DRS6000 code.

Bill Janssen ([janssen@parc.xerox.com](mailto:janssen@parc.xerox.com)) supplied the SunOS dynamic loader specific code. Manuel Serrano ([serrano@cornas.inria.fr](mailto:serrano@cornas.inria.fr)) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

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

[/=====]  
Boost.Geometry (aka GGL, Generic Geometry Library)

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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [ @.../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type ].

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include/bsd/stringlist.h  
man/fmtcheck.3bsd  
man/humanize\_number.3bsd  
man/stringlist.3bsd  
man/timeval.3bsd  
src/fmtcheck.c  
src/humanize\_number.c  
src/stringlist.c

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include/bsd/sys/endian.h  
man/byteorder.3bsd  
man/closefrom.3bsd  
man/expand\_number.3bsd  
man/flopen.3bsd  
man/getpeereid.3bsd  
man/pidfile.3bsd  
src/expand\_number.c  
src/hash/sha512.h  
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src/pidfile.c  
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src/timeconv.c

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Files:

src/flopen.c

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include/bsd/sys/tree.h

man/fparseIn.3bsd

src/fparseIn.c



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man/readpassphrase.3bsd  
man/strncpy.3bsd  
man/strtonum.3bsd  
src/arc4random.c  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
src/getentropy\_solaris.c  
src/readpassphrase.c  
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src/strlcat.c  
src/strncpy.c

src/strtonum.c

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src/inet\_net\_pton.c

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src/hash/md5.c

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src/chacha\_private.h

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src/hash/helper.c

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## 2.8 libbz2-1.0:amd64 1.0.6 :8

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<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)  
<svn://gcc.gnu.org/svn/gcc/> (for prereleases)  
<http://gnu-pascal.de/alpha/> (for GNU Pascal)  
<http://dgcc.sourceforge.net/> (for D)

The current gcc-4.4 source package is taken from the SVN gcc-4\_4-branch.



Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language      | Compiler package | Library package | Documentation      |
|---------------|------------------|-----------------|--------------------|
| Ada           | gnat-4.4         | libgnat-4.4     | gnat-4.4-doc       |
| C             | gcc-4.4          |                 | gcc-4.4-doc        |
| C++           | g++-4.4          | libstdc++6      | libstdc++6-4.4-doc |
| Fortran 95    | gfortran-4.4     | libgfortran3    | gfortran-4.4-doc   |
| Java          | gcj-4.4          | libgcj10        | libgcj-doc         |
| Objective C   | gobjc-4.4        | libobjc2        |                    |
| Objective C++ | gobjc++-4.4      |                 |                    |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources      | Development        | Debugging          | Position-Independent |
|----------|--------------|--------------------|--------------------|----------------------|
| C++      |              | libstdc++6-4.4-dbg | libstdc++6-4.4-pic |                      |
| Java     | libgcj10-src | libgcj10-dev       | libgcj10-dbg       |                      |

Additional packages include:

All languages:

|                           |                                     |
|---------------------------|-------------------------------------|
| libgcc1, libgcc2, libgcc4 | GCC intrinsics (platform-dependent) |
| gcc-4.4-base              | Base files common to all compilers  |
| gcc-4.4-soft-float        | Software floating point (ARM only)  |
| gcc-4.4-source            | The sources with patches            |

Ada:

|                               |                              |
|-------------------------------|------------------------------|
| libgnatvsn-dev, libgnatvsn4.4 | GNAT version library         |
| libgnatprj-dev, libgnatprj4.4 | GNAT Project Manager library |

C:

|                              |                                           |
|------------------------------|-------------------------------------------|
| cpp-4.4, cpp-4.4-doc         | GNU C Preprocessor                        |
| libmudflap0-dev, libmudflap0 | Library for instrumenting pointers        |
| libssp0-dev, libssp0         | GCC stack smashing protection library     |
| fixincludes                  | Fix non-ANSI header files                 |
| protoize                     | Create/remove ANSI prototypes from C code |

Java:

|               |                                      |
|---------------|--------------------------------------|
| gij           | The Java bytecode interpreter and VM |
| libgcj-common | Common files for the Java run-time   |
| libgcj10-awt  | The Abstract Windowing Toolkit       |

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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gcc/emults.c, gcc/gbl-ctors.h, gcc/gcov-io.h, gcc/libgcov.c,

- gcc/tsystem.h, gcc/typeclass.h).
- libdecnumber
- libgomp
- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libgfortran
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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;
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__
```

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1998-05-11

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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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;
    }
}
}
}

If+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
g;
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
g
506*([Lcom/sun/javadoc/Tag;)Ljava/lang/String;tagLcom/sun/javadoc/Tag;2::text
=?>java/lang/String@Alength()ICjava/lang/StringBuffer
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KSIT-(Ljava/lang/String;)Ljava/lang/StringBuilder;V </i></dt>
KX0Z</dl>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiresultLjava/lang/StringBuffer;
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&*,.,.,2,6,: ,>!,B "#QY$L*+%+'WFGH-.
/01A
*2Y+S4K

7806)+=>+29<=+_BYDN-EGW67+29<%-KYMO+29RURWGW+-YGW-[FOPS TUVT+Z/[7\>]D^S_u]bcf>] ^_

```

```
`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.
*
* <p>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.
*
* <p><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 = -563657022231596674L;

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

    /**
     * This method returns this Permission as a String.
     *
     * @return A String representing this permission.
     */
    String toString();
}

```

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```
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/lan
g/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilder
r
:
:>?@append"(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass()Ljava/lang/Class;
FHGjava/lang/Class45
:J?K3(Ljava/lang/String;)Lgnu/java/lang/CPStringBuilder;
H
N65P
RTSjava/lang/String01
:V95stringLgnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**+[] ^
```

XM,,\$nop

q \*+

,-./012345/\*6578,95S:Y<L+(=L+\*AEIL+ =L+\*LIL\*MOQ+ =L+\*MIL+)=L+U\*

">7>GNSKWXYZ

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

SourceFilePermission.java

```
16/gnu/javax/sound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/javax/sound/AudioSecurityMa
nager$Permission;RECORDALLENUM$VALUES2[Lgnu/javax/sound/AudioSecurityManager$Permission;<clinit
>()VCode
```

```
<init>(Ljava/lang/String;)I)V
```

LineNumberTableLocalVariableTable

```
thisvalues4()[Lgnu/javax/sound/AudioSecurityManager$Permission;
```

```
$&%java/lang/System'
```

```

arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOf(Ljava/lang/String;)Lgnu/javax/sound/AudioSecurityManager$Permission;
.)-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/javax/sound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javax/sound/AudioSecurityManager
Permission@1@@@

```

```
eAYYYYSYSYS
```

```
GE
```

```
1*+E !"
```

```
6YK*Y<YM#, )*
```

```
*
```

```
*+./012
```

```
35@
```

```
// 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__
.\" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.07)
.\"
.\" Standard preamble:
.\" =====
.de Sh \" Subsection heading
.br
.if t .Sp
.ne 5
.PP
\fB\\$1\fR
.PP
..
.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'
.ie n {\
. 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" "
"br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \{aq
.el .ds Aq '
.\"
.\" If the F register is turned on, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
.\" entries marked with X<> in POD. Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.ie \nF \{\
. de IX
. tm Index:\$1\t\n%t"\$2"
..
. nr % 0
. rr F
.\}
.el \{\
. de IX
..
.\}
.\"
.\" 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 \{\
. ds #H 0
. ds #V .8m
. ds #F .3m
. ds #[ \f1
. ds #] \fP
.\}
.if t \{\
. ds #H ((1u-(\\n(.fu%2u))*).13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
.\}

```

```

. \" simple accents for nroff and troff
.if n {\
. ds '\&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t {\
. ds '\k:h'-(\n(.wu*8/10-*(#H)^\h''\n:u"
. ds ` \k:h'-(\n(.wu*8/10-*(#H)^\h''\n:u'
. ds ^ \k:h'-(\n(.wu*10/11-*(#H)^\h''\n:u'
. ds , \k:h'-(\n(.wu*8/10),h''\n:u'
. ds ~ \k:h'-(\n(.wu-*(#H-.1m)~\h''\n:u'
. ds / \k:h'-(\n(.wu*8/10-*(#H)\z(\slh''\n:u'
.\}
. \" troff and (daisy-wheel) nroff accents
.ds : \k:h'-(\n(.wu*8/10-*(#H+.1m+*(#F)\v'-*(#V)\z.h'.2m+*(#F'.\h''\n:u\v'*(#V'
.ds 8 \h''*(#H)(*b)h'-*(#H'
.ds o \k:h'-(\n(.wu+\w'\(de'u-*(#H)/2u\v'-.3n''*(#[z](de\v'.3n'h''\n:u''*(#)
.ds d- \h''*(#H)(pd|h'-\w'~\u\v'-.25m^f2(hy\fp\v'.25m^h'-*(#H'
.ds D- D\k:h'-\w'D'u\v'-.11m^z(hy\v'.11m^h''\n:u'
.ds th \*(#[[v'.3m^s+1I[s-1\v'-.3m^h'-(\w'Tu*2/3)\s-1o\s+1*(#)
.ds Th \*(#[[s+2I[s-2|h'-\w'Tu*3/5\v'-.3m'o\v'.3m''*(#)
.ds ae a|h'-(\w'a'u*4/10)e
.ds Ae A|h'-(\w'A'u*4/10)E
. \" corrections for vroff
.if v .ds ~ \k:h'-(\n(.wu*9/10-*(#H)\s-2\u~\d\s+2h''\n:u'
.if v .ds ^ \k:h'-(\n(.wu*10/11-*(#H)\v'-.4m^\v'.4m^h''\n:u'
. \" for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
{\
. ds : e
. ds 8 ss
. ds o a
. ds d- d|h'-1^(ga
. ds D- D|h'-1^(hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\" =====
.\"
.IX Title "GPL 7"
.TH GPL 7 "2010-01-21" "gcc-4.4.3" "GNU"

```



```

.\" For nroff, turn off justification. Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.Sh "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.Sh "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\&    Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
\&
\&    Everyone is permitted to copy and distribute verbatim copies of this
\&    license document, but changing it is not allowed.
.Ve
.Sh "Preamble"
.IX Subsection "Preamble"
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.PP
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to take away your freedom to share and change the works. By contrast,
the \s-1GNU\s0 General Public License is intended to guarantee your freedom
to share and change all versions of a program\*(-to make sure it remains
free software for all its users. We, the Free Software Foundation,
use the \s-1GNU\s0 General Public License for most of our software; it
applies also to any other work released this way by its authors. You
can apply it to your programs, too.
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want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.
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have certain responsibilities if you distribute copies of the
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of others.
.PP
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gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too,

```

receive or can get the source code. And you must show them these terms so they know their rights.

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.PP

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

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

.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

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.Sp

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.Sp

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.Sp

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.Sp

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.Sp

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.Sp

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.Sp

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.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. \\*(L"Object code\\*(R" means any non-source form of a work.

.Sp

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.

.Sp

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.

.Sp

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.Sp

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.

.IP "2. Basic Permissions." 4

.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."

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.IP "4. Conveying Verbatim Copies." 4

.IX Item "4. Conveying Verbatim Copies."

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.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 `*(L"keep intact all notices\*(R"`.

.IP "c." 4

.IX Item "c."

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.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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.RE

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

.IX Item "6. Conveying Non-Source Forms."

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.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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.RS 4

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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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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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.RE

.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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.IX Item "b."

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.IX Item "c."

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.IP "11. Patents." 4

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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." 4

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

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Program, unless a warranty or assumption of liability accompanies a  
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.Sh "END OF TERMS AND CONDITIONS"

.IX Subsection "END OF TERMS AND CONDITIONS"

.Sh "How to Apply These Terms to Your New Programs"

.IX Subsection "How to Apply These Terms to Your New Programs"

If you develop a new program, and you want it to be of the greatest  
possible use to the public, the best way to achieve this is to make it  
free software which everyone can redistribute and change under these  
terms.

.PP

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 `\*(L"copyright\*(R"` line and a pointer to where the full notice is found.

.PP

.Vb 2

```
\& <one line to give the program\*(Aqs name and a brief idea of what it does.>
```

```
\& Copyright (C) <year> <name of author>
```

```
\&
```

```
\& This program is free software: you can redistribute it and/or modify  
\& it under the terms of the GNU General Public License as published by  
\& the Free Software Foundation, either version 3 of the License, or (at  
\& your option) any later version.
```

```
\&
```

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

```
\&
```

```
\& You should have received a copy of the GNU General Public License  
\& along with this program. If not, see <http://www.gnu.org/licenses/>.
```

.Ve

.PP

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

.PP

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

.PP

.Vb 4

```
\& <program> Copyright (C) <year> <name of author>
```

```
\& This program comes with ABSOLUTELY NO WARRANTY; for details type "show w".
```

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

.Ve

.PP

The hypothetical commands `\fBshow w\fR` and `\fBshow c\fR` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a `\s-1GUI\s0` interface, you would use an `\*(L"about box\*(R"`.

.PP

You should also get your employer (if you work as a programmer) or school, if any, to sign a `\*(L"copyright disclaimer\*(R"` for the program, if necessary.

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.SH "SEE ALSO"

.IX Header "SEE ALSO"

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.SH "COPYRIGHT"

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```
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   adapted to BSD conventions for symbol names and debugging.)
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<<http://www.gnu.org/licenses/>>. \*/

```
/* 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_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

```

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Version 3, 29 June 2007

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```
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>License</title><meta name="generator" content="DocBook XSL Stylesheets V1.74.0"
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href=" ../spine.html" title="The GNU C++ Library Documentation" /><link rel="up" href="status.html"
title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next"
href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
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href="bugs.html">Next</a></td></tr></table><hr /></div><div class="sect1" lang="en" xml:lang="en"><div
class="titlepage"><div><div><h2 class="title" style="clear: both"><a
id="manual.intro.status.license"></a>License</h2></div></div></div><p>
```

There are two licenses affecting GNU libstdc++: one for the code,  
and one for the documentation.

```
</p><p>
```

There is a license section in the FAQ regarding common <a class="link" href=" ../faq.html#faq.license" title="License">questions</a>. If you have more

questions, ask the FSF or the <a class="ulink" href="http://gcc.gnu.org/lists.html" target="\_top">gcc mailing list</a>.

```
</p><div class="sect2" lang="en" xml:lang="en"><div class="titlepage"><div><div><h3 class="title"><a
id="manual.intro.status.license.gpl"></a>The Code: GPL</h3></div></div></div><p>
```

The source code is distributed under the <a class="link" href="appendix\_gpl.html" title="AppendixD. GNU General Public License version 3">GNU General Public License version 3</a>,

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Everyoneispermittedtocopyanddistributeverbatimcopiesofthis<br />  
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ThisGCCRuntimeLibraryException("Exception")isanadditional<br />  
permissionundersection7oftheGNUGeneralPublicLicense,version<br />  
3("GPLv3").Itappliestoagivenfile(the"RuntimeLibrary")that<br />  
bearsanoticeplacedbythecopyrightholderofthefilestatingthat<br />  
thefileisgovernedbyGPLv3alongwiththisException.<br />  
<br />  
WhenyouuseGCCtocompileaprogram,GCCmaycombineportionsof<br />  
certainGCCheaderfilesandruntimelibrarieswiththecomplied<br />  
program.ThepurposeofthisExceptionistoallowcompilationof<br />  
non-GPL(includingproprietary)programstouse,inthisway,the<br />  
headerfilesandruntimelibrariescoveredbythisException.<br />  
<br />  
0.Definitions.<br />  
<br />  
Afileisan"IndependentModule"ifiteitherrequirestheRuntime<br />  
LibraryforexecutionafteraCompilationProcess,ormakesuseofan<br />  
interfaceprovidedbytheRuntimeLibrary,butisnototherwisebased<br />  
ontheRuntimeLibrary.<br />  
<br />  
"GCC"meansaversionoftheGNUCompilerCollection,withorwithout<br />  
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<br />  
"TargetCode"referstooutputfromanycompilerforarealorvirtual<br />  
targetprocessorarchitecture,inexecutableformorsuitablefor<br />  
inputtoan assembler,loader,linkerand/or execution<br />  
phase.Notwithstandingthat,TargetCodedoesnotincludedatainany<br />  
formatthat is used as a compiler intermediate representation, or used<br />  
for producing a compiler intermediate representation.<br />  
<br />  
The"CompilationProcess"transformscodeentirelyrepresentedin<br />  
non-intermediatelanguagesdesignedforhuman-writtencode,and/orin<br />



JavaVirtualMachinebytecode,intoTargetCode.Thus,forexample,<br />  
useofsourcecodegeneratorsandpreprocessorsneednotbeconsidered<br />  
partoftheCompilationProcess,sincetheCompilationProcesscanbe<br />  
understoodasstartingwiththeoutputofthegeneratorsor<br />  
preprocessors.<br />

<br />

ACompilationProcessis"Eligible"ifitisdoneusingGCC,aloneor<br />  
withotherGPL-compatiblesoftware,orifitisdonewithoutusingany<br />  
workbasedonGCC.Forexample,usingnon-GPL-compatibleSoftwareto<br />  
optimizeanyGCCintermediaterepresentationswouldnotqualifyasan<br />  
EligibleCompilationProcess.<br />

<br />

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<br />

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propagationwouldotherwiseviolatethetermsofGPLv3,providedthat<br />  
allTargetCodewasgeneratedbyEligibleCompilationProcesses.You<br />  
maythenconveysuchacombinationundertermsofyourchoice,<br />  
consistentwiththelicensingoftheIndependentModules.<br />

<br />

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requirementsofthelicenseofGCC.<br />

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accesskey="n" href="bugs.html">Next</a></td></tr><tr><td width="40%" align="left"
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href="..spine.html">Home</a></td><td width="40%" align="right"
valign="top">Bugs</td></tr></table></div></body></html>
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```

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"HTML Tidy for Linux/x86 (vers 12 April 2005), see www.w3.org" />
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<meta http-equiv="Content-Type" content=
"text/html; charset=us-ascii" />
</head>
```

```
<body>
<div id="page">
<h2>Disclaimer and Copyright</h2>
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```
</div>
</body>
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<title>GNU Free Documentation License</title>
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<bridgehead id="fdl-1-preamble" renderas="sect1">

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modification of the Modified Version to whoever possesses a copy of it.

In addition, you must do these things in the Modified Version:

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<orderedlist numeration="upperalpha">

<listitem>

<simpara>

Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

</simpara>

</listitem>

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List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

</simpara>

</listitem>

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<simpara>

State on the Title page the name of the publisher of the Modified Version, as the publisher.

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Preserve all the copyright notices of the Document.

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Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

</simpara>

</listitem>

<listitem>

<simpara>

Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

</simpara>

</listitem>

<listitem>

<simpara>

Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

</simpara>

</listitem>

<listitem>

<simpara>

Include an unaltered copy of this License.

</simpara>

</listitem>

<listitem>

<simpara>

Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

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</listitem>

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<simpara>

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</simpara>

</listitem>

<listitem>

<simpara>

For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

</simpara>

</listitem>

<listitem>

<simpara>

Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

</simpara>

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<simpara>



Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

</simpara>

</listitem>

<listitem>

<simpara>

Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

</simpara>

</listitem>

<listitem>

<simpara>

Preserve any Warranty Disclaimers.

</simpara>

</listitem>

</orderedlist>

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If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

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<para>

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

</para>

<para>

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

</para>

<para>

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</para>

<bridgehead id="Combining" renderas="sect1">

5. COMBINING DOCUMENTS

</bridgehead>

<para>

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</para>

<para>

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

</para>

<para>

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

</para>

<bridgehead id="Collections" renderas="sect1">

## 6. COLLECTIONS OF DOCUMENTS

</bridgehead>

<para>

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</para>

<para>

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</para>

<bridgehead id="Aggregation" renderas="sect1">

## 7. AGGREGATION WITH INDEPENDENT WORKS

</bridgehead>

<para>

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<para>

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</para>

<bridgehead id="Translation" renderas="sect1">

## 8. TRANSLATION

</bridgehead>

<para>

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</para>

<para>

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.

</para>

<bridgehead id="fdl-1-termination" renderas="sect1">

## 9. TERMINATION

</bridgehead>

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</para>

<bridgehead id="FutureRevisions" renderas="sect1">

## 10. FUTURE REVISIONS OF THIS LICENSE

</bridgehead>

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<para>

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation.

</para>

<bridgehead id="HowToUse" renderas="sect1">

ADDENDUM: How to use this License for your documents

</bridgehead>

<para>

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

</para>

<blockquote>

<para>

Copyright (C) YEAR YOUR NAME.

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</para>

</blockquote>

<para>

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

</para>

<blockquote>

<para>

with the Invariant Sections being LIST THEIR TITLES, with the

Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

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</blockquote>  
<para>

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

</para>

<para>

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

</para>

</appendix>

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE appendix PUBLIC "-//OASIS//DTD DocBook XML V4.5//EN"

"http://www.oasis-open.org/docbook/xml/4.5/docbookx.dtd">

<appendix id="appendix.gpl-3.0">

<?dbhtml filename="appendix\_gpl.html"?>

<title>

<acronym>GNU</acronym> General Public License version 3

</title>

<para>

Version 3, 29 June 2007

</para>

<para>

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</para>

<bridgehead id="gpl-3-preamble" renderas="sect1">

Preamble

</bridgehead>

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</para>

<para>

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software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

For the developers&rsquo; and authors&rsquo; protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this free software. For both users&rsquo; and authors&rsquo; sake, the <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.

</para>

<para>

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&rsquo; 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 <acronym>GPL</acronym> 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 <acronym>GPL</acronym>, as needed to protect the freedom of users.

</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>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

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

0. Definitions.

</bridgehead>

<para>

&ldquo;This License&rdquo; refers to version 3 of the <acronym>GNU</acronym> General Public License.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

A &ldquo;covered work&rdquo; means either the unmodified Program or a work based on the Program.

</para>

<para>

To &ldquo;propagate&rdquo; 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.

</para>

<para>

To &ldquo;convey&rdquo; 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 &ldquo;Appropriate Legal Notices&rdquo; 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 id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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

</para>

<para>

A &ldquo;Standard Interface&rdquo; 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 &ldquo;System Libraries&rdquo; 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 &ldquo;Major Component&rdquo;, 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 &ldquo;Corresponding Source&rdquo; 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.

</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>

<bridgehead id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

<para>

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

</para>

<para>

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

</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>

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

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

</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>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is 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 work's users, your or third parties' legal rights to forbid circumvention of technological measures.

</para>

<bridgehead id="ConveyingVerbatim" renderas="sect1">

### 4. Conveying Verbatim Copies.

</bridgehead>

<para>

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.

</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 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">

<listitem>

<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 &ldquo;keep intact all notices&rdquo;.

</para>

</listitem>

<listitem>

<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>

<listitem>

<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 &ldquo;aggregate&rdquo; if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation&rsquo;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.

</para>

<bridgehead 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">

<listitem>

<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 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.

</para>

</listitem>

<listitem>

<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.

</para>

</listitem>

<listitem>

<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.

</para>

</listitem>

<listitem>

<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.

</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 &ldquo;User Product&rdquo; is either (1) a &ldquo;consumer product&rdquo;, 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, &ldquo;normally used&rdquo; 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>

&ldquo;Installation Information&rdquo; 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.

</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.

</para>

<bridgehead id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

&ldquo;Additional permissions&rdquo; are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

</para>

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

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<bridgehead id="InterpretationSecs1516" renderas="sect1">

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</para>

<screen>

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<replaceable>one line to give the program&rsquo;s name and a brief idea of what it does.</replaceable>
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```

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</para>

<screen>

<replaceable>program</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

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</appendix>

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, Fortran 95, Java, Objective-C, Objective-C++, and Treelang compilers, documentation, and support libraries. In addition, Debian provides the GNU Pascal compiler in the same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)  
svn://gcc.gnu.org/svn/gcc/ (for prereleases)  
http://gnu-pascal.de/alpha/ (for GNU Pascal)  
http://dgcc.sourceforge.net/ (for D)

The current gcc-@BV@ source package is taken from the SVN @SVN\_BRANCH@.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language      | Compiler package | Library package | Documentation       |
|---------------|------------------|-----------------|---------------------|
| Ada           | gnat-@BV@        | libgnat-@BV@    | gnat-@BV@-doc       |
| C             | gcc-@BV@         |                 | gcc-@BV@-doc        |
| C++           | g++-@BV@         | libstdc++6      | libstdc++6-@BV@-doc |
| Fortran 95    | gfortran-@BV@    | libgfortran3    | gfortran-@BV@-doc   |
| Java          | gcj-@BV@         | libgcj10        | libgcj-doc          |
| Objective C   | gobjc-@BV@       | libobjc2        |                     |
| Objective C++ | gobjc++-@BV@     |                 |                     |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

-----  
 C++                            libstdc++6-@BV@-dbg    libstdc++6-@BV@-pic  
 Java    libgcj10-src libgcj10-dev    libgcj10-dbg

Additional packages include:

All languages:

|                           |                                     |
|---------------------------|-------------------------------------|
| libgcc1, libgcc2, libgcc4 | GCC intrinsics (platform-dependent) |
| gcc-@BV@-base             | Base files common to all compilers  |
| gcc-@BV@-soft-float       | Software floating point (ARM only)  |
| gcc-@BV@-source           | The sources with patches            |

Ada:

|                                |                              |
|--------------------------------|------------------------------|
| libgnatvsn-dev, libgnatvsn@BV@ | GNAT version library         |
| libgnatprj-dev, libgnatprj@BV@ | GNAT Project Manager library |

C:

|                              |                                           |
|------------------------------|-------------------------------------------|
| cpp-@BV@, cpp-@BV@-doc       | GNU C Preprocessor                        |
| libmudflap0-dev, libmudflap0 | Library for instrumenting pointers        |
| libssp0-dev, libssp0         | GCC stack smashing protection library     |
| fixincludes                  | Fix non-ANSI header files                 |
| protoize                     | Create/remove ANSI prototypes from C code |

Java:

|               |                                      |
|---------------|--------------------------------------|
| gij           | The Java bytecode interpreter and VM |
| libgcj-common | Common files for the Java run-time   |
| libgcj10-awt  | The Abstract Windowing Toolkit       |
| libgcj10-jar  | Java ARchive for the Java run-time   |

C, C++ and Fortran 95:

|                        |                                   |
|------------------------|-----------------------------------|
| libgomp1-dev, libgomp1 | GCC OpenMP (GOMP) support library |
|------------------------|-----------------------------------|

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libdecnumber
- libgomp
- libssp
- libstdc++-v3
- libobjc
- libmudflap
- libgfortran
- The libgnat-@BV@ Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

## HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

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

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

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

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

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

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

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

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

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

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

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

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

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

operating system, as well as its variant, the GNU/Linux operating system.

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

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

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

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

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

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

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

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

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

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

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

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

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

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work



based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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and the section as a whole is intended to apply in other circumstances.

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

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

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

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

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

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

@c man end

@c man begin COPYRIGHT

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@c man end

@end ignore

@node Copying

@c man begin DESCRIPTION

@unnumbered GNU General Public License

@center Version 3, 29 June 2007

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

@display

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@heading Preamble

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

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

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

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the

practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

@heading TERMS AND CONDITIONS

@enumerate 0

@item Definitions.

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

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

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

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

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

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

To ``convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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

@item Source Code.

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

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

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

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

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

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

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

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

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@item 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



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recipients a copy of this License along with the Program.

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and you may offer support or warranty protection for a fee.

@item Conveying Modified Source Versions.

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

@enumerate a

@item

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

@item

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

@item

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

@item

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

@end enumerate

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

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

@item Conveying Non-Source Forms.

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

@enumerate a

@item

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

@item

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

@item

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

@item

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

Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item

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

@end enumerate

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

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@c man end

DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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```
\emph{%(tool)s, The %(name)s Development Environment}
```

```
\emph{%(edition)s}
```

```
\begin{DUlineblock}{0em}  
\item[] Version %(version)s  
\item[] Date: %(date)s  
\end{DUlineblock}
```

AdaCore

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```
/* Definitions for BSD assembler syntax for Intel 386  
(actually AT&T syntax for insns and operands,  
adapted to BSD conventions for symbol names and debugging.)  
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```

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```
/* Use the Sequent Symmetry assembler syntax. */
```

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

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

```
#define LPREFIX "L"
```

```

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

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

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

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

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

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
printf (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)), \
printf ((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)), \
printf ((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)), \
printf ((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'
.ie n {\
. 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
.el      .ds Aq '
.\ "
.\ " 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 \{\
. ds #H 0
. ds #V .8m
. ds #F .3m
. ds #[ \f1

```



```

. ds #] \fP
.\}
.if t \{\
. ds #H ((1u-(\|n(.fu%2u))*13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n \{\
. ds ' \&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t \{\
. ds '\k:h'-(\|n(.wu*8/10-*(#H)^\h'\|n:u"
. ds ` \k:h'-(\|n(.wu*8/10-*(#H)^\h'\|n:u'
. ds ^ \k:h'-(\|n(.wu*10/11-*(#H)^\h'\|n:u'
. ds , \k:h'-(\|n(.wu*8/10),h'\|n:u'
. ds ~ \k:h'-(\|n(.wu-*(#H-.1m)~\h'\|n:u'
. ds / \k:h'-(\|n(.wu*8/10-*(#H)\z(s|h'\|n:u'
.\}
. \" troff and (daisy-wheel) nroff accents
.ds : \k:h'-(\|n(.wu*8/10-*(#H+.1m+*(#F)\v'-*(#V\z.h'.2m+*(#F'.h'\|n:u'\v'*(#V'
.ds 8 \h'*(#H\(*b'h'-*(#H'
.ds o \k:h'-(\|n(.wu+|w|(de'u-*(#H)/2u^\v'-.3n^*(#[z|(de)v'.3n'h'\|n:u"*(#)
.ds d- \h'*(#H\((pd|h'-|w'~'u'\v'-.25m^f2(hy|fP\v'.25m'h'-*(#H'
.ds D- D\k:h'-|w'D'u'\v'-.11m^z|(hy\v'.11m'h'\|n:u'
.ds th \*(#[v'.3m^|s+1I|s-1\v'-.3m^h'-(\w'Tu*2/3)\s-1o\s+1\*(#)
.ds Th \*(#[|s+2I|s-2|h'-|w'Tu*3/5\v'-.3m^o\v'.3m^*(#)
.ds ae a|h'-(\w'a'u*4/10)e
.ds Ae A|h'-(\w'A'u*4/10)E
. \" corrections for vroff
.if v .ds ~ \k:h'-(\|n(.wu*9/10-*(#H)\s-2|u~|d|s+2|h'\|n:u'
.if v .ds ^ \k:h'-(\|n(.wu*10/11-*(#H)\v'-.4m'^\v'.4m'h'\|n:u'
. \" for low resolution devices (crt and lpr)
.if \|n(.H>23 .if \|n(.V>19 \
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. ds : e
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.rm #[ #] #H #V #F C
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.\"
.IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
.\" For nroff, turn off justification. Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
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\& license document, but changing it is not allowed.
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can apply it to your programs, too.
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want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.
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.PP

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.PP

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.PP

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.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."

\&\\*(L"This License\\*(R" refers to version 3 of the \s-1GNU\s0 General Public License.

.Sp

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

.Sp

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

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

.Sp

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.

.Sp

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.

.Sp

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. \*(L"Object code\*(R" means any non-source form of a work.

.Sp

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.

.Sp

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.

.Sp

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.

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

.IP "2. Basic Permissions." 4

.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.

.Sp

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 \\*(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.

.RE

.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.

.RE

.RS 4

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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.

.Sp

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.

.Sp

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).

.Sp

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.

.RE

.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

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.RS 4

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.IX Item "a."

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.IX Item "b."

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.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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.RS 4

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.RE

.IP "8. Termination." 4

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.IX Item "9. Acceptance Not Required for Having Copies."

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.IP "11. Patents." 4

.IX Item "11. Patents."

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.IP "12. No Surrender of Others' Freedom." 4

.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." 4

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

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

.IX Subsection "END OF TERMS AND CONDITIONS"

.SS "How to Apply These Terms to Your New Programs"

.IX Subsection "How to Apply These Terms to Your New Programs"

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.PP

.Vb 2

\& <one line to give the program\\*(Aqs name and a brief idea of what it does.>

\& Copyright (C) <year> <name of author>

\&

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.Ve

.PP

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

.PP

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

.PP

.Vb 4

\& <program> Copyright (C) <year> <name of author>

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

\& under certain conditions; type "show c" for details.

.Ve

.PP

The hypothetical commands `\fBshow w\fR` and `\fBshow c\fR` should show  
the appropriate parts of the General Public License. Of course, your  
program's commands might be different; for a `\s-1GUI\s0` interface, you would  
use an `\*(L"about box\*(R"`.

.PP

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.SH "SEE ALSO"

.IX Header "SEE ALSO"

\&\fI\gfdl\fR|(7), \&\fI\fsf-funding\fR|(7).

.SH "COPYRIGHT"

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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

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

@c man end

@c man begin COPYRIGHT

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@c man end

@end ignore

@node Copying

@c man begin DESCRIPTION

@unnumbered GNU General Public License

@center Version 3, 29 June 2007

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

@display

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@item

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@item

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The hypothetical commands @samp{show w} and @samp{show c} should show

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@c man end

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-----  
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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

```
-----  
#!/usr/bin/python  
#  
# Copyright (C) 2013-2018 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.py --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.py --this-year libitm
#
# would run the script on just libitm/.
#
# 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',
            'mkninstalldirs',
            '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+&copy;'
            '|[Cc]opyright\s+@copyright{ }'
            '|copyright = u\'
            '|@set\s+copyright[\w-]+)'

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

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

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

        # A regexp for notices that might have slipped by. Just matching
        # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of

```

```

# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                                       re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+;+%+//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

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

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

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

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

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

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

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

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

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

```

```

return (min (year_list), max (year_list))

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

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

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

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

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

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

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

    intro = match.group (1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()

```

```

if after_years != "":
    self.errors.report (pathname,
                        'trailing characters in @set: '
                        + after_years)
    return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break

        # 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)

```

```

mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    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)
        os.fchmod (file.fileno(), mode)
    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)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, "")
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                                         + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

```

#-----

```

class TopLevelFilter (GenericFilter):

```

```

    def skip_dir (self, dir, subdir):
        return True

```

```

class ConfigFilter (GenericFilter):

```

```

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

```

```

    def skip_file (self, dir, filename):

```

```

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

```

```

class GCCFilter (GenericFilter):

```

```

    def __init__ (self):

```

```

GenericFilter.__init__ (self)

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

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

    # Handled separately.
    'testsuite',
])

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

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set ([
    # Old news won't be updated.
    'ONEWS',
])

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

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

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information

```

```

# and isn't updated.
if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
    return True
# Similarly params/README.
if filename == 'README' and os.path.basename (dir) == 'params':
    return True
if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
return True
return GenericFilter.skip_file (self, dir, filename)

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

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

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

        # The testsuite data files shouldn't be changed.
        'data',

        # Contains imported images

```

```

        'images',
    ])

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

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

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

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

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Intel Corporation')
        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 ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir ('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
        # maintainer-scripts maintainer-scripts
        # zlib is imported from upstream.

```



```

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

```

GCCCmdLine().main()

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
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library" /><link rel="home" href="../index.html" title="The GNU C++ Library" /><link rel="up" href="status.html"
title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next"
href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
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align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n"
href="bugs.html">Next</a></td></tr></table><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><p>
    There are two licenses affecting GNU libstdc++: one for the code,
    and one for the documentation.
</p><p>
    There is a license section in the FAQ regarding common <a class="link"
href="../faq.html#faq.license">questions</a>. If you have more
    questions, ask the FSF or the <a class="link" href="http://gcc.gnu.org/lists.html" target="_top">gcc mailing
list</a>.
</p><div class="section"><div class="titlepage"><div><div><h3 class="title"><a
id="manual.intro.status.license.gpl"></a>The Code: GPL</h3></div></div></div><p>
    The source code is distributed under the <a class="link" href="appendix_gpl.html" title="AppendixD. GNU

```

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permissionundersection7oftheGNUGeneralPublicLicense,version<br />  
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bearsanoticeplacedbythecopyrightholderofthefilestatingthat<br />  
thefileisgovernedbyGPLv3alongwiththisException.<br />  
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certainGCCheaderfilesandruntimelibrarieswiththecomplied<br />  
program.ThepurposeofthisExceptionistoallowcompilationof<br />  
non-GPL(includingproprietary)programstouse,inthisway,the<br />  
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targetprocessorarchitecture,inexecutableformorsuitablefor<br />  
inputtoan assembler, loader, linkerand/or execution<br />  
phase.Notwithstandingthat,TargetCodedoesnotincludedatainany<br />  
formatthat is used as a compiler intermediate representation, or used<br />

for producing a compiler intermediate representation. <br />

<br />

The "Compilation Process" transforms code entirely represented in <br />  
non-intermediate languages designed for human-written code, and/or in <br />

Java Virtual Machine bytecode, into Target Code. Thus, for example, <br />

use of source code generators and preprocessors need not be considered <br />

part of the Compilation Process, since the Compilation Process can be <br />

understood as starting with the output of the generators or <br />

preprocessors. <br />

<br />

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with other GPL-compatible software, or if it is done without using any <br />

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<br />

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<br />

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<br />

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give you any rights to use it.

</simpara>

<bridgehead xml:id="fdl-1-section10" renderas="sect2">

## 10. FUTURE REVISIONS OF THIS LICENSE

</bridgehead>

<simpara>

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See

<link xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.gnu.org/copyleft/">Copyleft</link>.

</simpara>

<simpara>

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License or any later version applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

</simpara>

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

## 11. RELICENSING

</bridgehead>

<simpara>

Massive Multiauthor Collaboration Site (or MMC 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 server. A Massive Multiauthor Collaboration (or MMC) contained in the site means any set of copyrightable works thus published on the MMC site.

</simpara>

<simpara>

CC-BY-SA means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

</simpara>

<simpara>

Incorporate means to publish or republish a Document, in whole or in part, as part of another Document.

</simpara>

<simpara>  
An MMC is eligible for relicensing if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

</simpara>

<simpara>  
The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

</simpara>

<bridgehead xml:id="fdl-1-addendum" renderas="sect2">  
ADDENDUM: How to use this License for your documents

</bridgehead>

<simpara>  
To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

</simpara>

<screen>Copyright YEAR YOUR NAME

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled GNU Free Documentation License.</screen>

<simpara>

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the with Texts. line with this:

</simpara>

<screen>with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.</screen>

<simpara>

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

</simpara>

<simpara>

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

</simpara>

</appendix>

<appendix xmlns="http://docbook.org/ns/docbook" version="5.0"

xml:id="appendix.gpl-3.0"><info><title>

<acronym>GNU</acronym> General Public License version 3

</title></info>

<?dbhtml filename="appendix\_gpl.html"?>

<para>

Version 3, 29 June 2007

</para>

<para>

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<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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</para>

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

Preamble

</bridgehead>

<para>

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</para>

<para>

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</para>

<para>

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

</para>

<para>

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

</para>

<para>

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you



received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

</para>

<para>

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

</para>

<para>

For the developers and authors protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this free software. For both users and authors sake, the <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.

</para>

<para>

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 <acronym>GPL</acronym> 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 <acronym>GPL</acronym>, as needed to protect the freedom of users.

</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>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

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

0. Definitions.

</bridgehead>

<para>

This License refers to version 3 of the <acronym>GNU</acronym> General Public License.

</para>

<para>

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

</para>

<para>

The Program refers to any copyrightable work licensed under this License. Each licensee is addressed as you.

Licensees and recipients may be individuals or organizations.

</para>

<para>

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

</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 or without modification), making available to the public, and in some 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 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>

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

## 2. Basic Permissions.

</bridgehead>

<para>

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</para>

<para>

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

</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>

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

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

</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>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is 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 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">

<listitem>

<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>

<listitem>

<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>

<listitem>

```
<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
  this License to apply to the other parts of the aggregate.
</para>
<bridgehead 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">
  <listitem>
    <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
      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.
    </para>
  </listitem>
</orderedlist>
```

</listitem>

<listitem>

<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.

</para>

</listitem>

<listitem>

<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.

</para>

</listitem>

<listitem>

<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.

</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.

</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.

</para>

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

7. Additional Terms.

</bridgehead>

<para>

Additional permissions are terms that supplement the terms of this License by making exceptions from one or more of its conditions.



Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

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<para>

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

</para>

<para>

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

</para>

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

<listitem>

<para>

Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

</para>

</listitem>

<listitem>

<para>

Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

</para>

</listitem>

<listitem>

<para>

Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

</para>

</listitem>

<listitem>

<para>

Limiting the use for publicity purposes of names of licensors or authors of the material; or

</para>

</listitem>

<listitem>

<para>

Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

</para>

</listitem>

<listitem>

<para>

Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

</para>

</listitem>

</orderedlist>

<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>

<para>

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</para>

<para>

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, 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 permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of 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.

</para>

<para>

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</para>

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

9. Acceptance Not Required for Having Copies.

</bridgehead>

<para>

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</para>

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

10. Automatic Licensing of Downstream Recipients.

</bridgehead>

<para>

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</para>

<para>

An entity transaction is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the

partys predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

</para>

<para>

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</para>

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

11. Patents.

</bridgehead>

<para>

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</para>

<para>

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</para>

<para>

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In the following three paragraphs, a patent license is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To grant such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

</para>

<para>

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. Knowingly relying means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipients use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

</para>

<para>

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

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</appendix>

## 2.13 libgmp10 amd64:2:6.1.2+dfsg-1

### 2.13.1 Available under license :

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GMP Debian Package

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This gmp package was built for Debian by

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## 2.14 libhogweed4 3.4.1-1

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The implementation of the AES cipher (also known as rijndael) is written by Rafael Sevilla. Assembler for x86 by Rafael Sevilla and Niels Miller, Sparc assembler by Niels Miller. Released under the LGPL.

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#### ARCFOUR

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#### CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Miller. Assembler for x86 and x86\_64 by Niels Miller. Released under the LGPL.

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#### CAST128

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

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#### DES

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

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#### MD2

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

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#### MD4

This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

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#### MD5

The implementation of the MD5 message digest is written by Colin Plumb. It has been hacked some more by Andrew Kuchling and Niels Miller. Released into the public domain.

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#### SERPENT

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#### SHA1

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#### SHA224, SHA256, SHA384, and SHA512

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

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#### TWOFISH

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

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#### RSA

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#### DSA

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## 2.15 libicu60 60.2-3ubuntu3

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## 2.16 liblz4-1 0.0~r131-2ubuntu3

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## 2.18 liblzo2-2:amd64 2.08 :1.2

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## 2.19 libnettle6 3.4.1-1

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## CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Mller. Assembler for x86 and x86\_64 by Niels Mller. Released under the LGPL.

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## CAST128

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

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## DES

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

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## MD2

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## MD5

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SHA224, SHA256, SHA384, and SHA512

Written by Niels Mller, using Peter Gutmann's SHA1 code as a  
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```
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```

```
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```

```
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```

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## 2.20 libstdc++6 8.2.0

### 2.20.1 Available under license :

```
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# 128 bit long double support was introduced with GCC 4.6.0 for FreeBSD.
# These lines make the symbols to get a @@GCC_4.6.0.

%exclude {
__addtf3
__copysigntf3
__divtc3
__divtf3
__eqtf2
__extenddftf2
__extendsftf2
__extendxftf2
__fabstf2
__fixtfdi
__fixtfsi
__fixtfti
__fixunstfdi
__fixunstfsi
__fixunstfti
__floatditf
__floatsitf
__floattitf
__floatunditf
__floatunsitf
```

```
__floatuntif
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negf2
__netf2
__powtf2
__subtf3
__trunctdf2
__trunctsf2
__trunctxf2
__unordtf2
}
```

```
GCC_4.6.0 {
__addtf3
#ifdef __x86_64__
__copysigntf3
#endif
__divtc3
__divtf3
__eqtf2
__extenddf2
__extendsf2
__extendxf2
#ifdef __x86_64__
__fabstf2
#endif
__fixtfdi
__fixtfsi
#ifdef __x86_64__
__fixfti
#endif
__fixunstfdi
__fixunstfsi
#ifdef __x86_64__
__fixunstfti
#endif
__floatditf
__floatsitf
#ifdef __x86_64__
__floattif
#endif
__floatunditf
__floatunsitf
}
```

```
%ifdef __x86_64__
__floatunidf
%endif
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powtf2
__subtf3
__trunctfdf2
__trunctfsf2
__trunctxf2
__unordtf2
}
```

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Version 3.1, 31 March 2009

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//OASIS//DTD DocBook V4.5//EN"
"http://www.oasis-open.org/docbook/xml/4.5/docbookx.dtd">
<!-- faq-copyright.xml -->

<qandadiv id="faq.copyright">
<title>Copyright</title>

<qandaentry id="faq.what.copyright">
<question><para>What are the copyrights?</para></question>

<answer>
<para>Please see <ulink url="https://cygwin.com/licensing.html"/>
for more information about Cygwin copyright and licensing.</para>
</answer>
</qandaentry>
</qandadiv>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE legalnotice PUBLIC "-//OASIS//DTD DocBook V4.5//EN"
"http://www.oasis-open.org/docbook/xml/4.5/docbookx.dtd">

<legalnotice id="legal">

<para>Copyright &copy; Cygwin authors</para>

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Version 2, June 1991

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(19) - FTDI (ft32-\* targets)

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(20) - Synopsys Inc (arc-\* targets)

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```
#!/usr/bin/python
#
# Copyright (C) 2013-2018 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.py --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.py --this-year libitm
#
# would run the script on just libitm/.
#
# 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:

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    def __init__(self):
        self.num_errors = 0

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

```

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

```

```

class GenericFilter:

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    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:

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    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+&copy;'
    '|[Cc]opyright\s+@copyright{ }'
    '|copyright = u\"
    '|@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.texti).
 '(' + name + '(?:\s?' + name + ')*?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile ('#+[[*]+;+|%+//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

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

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

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

```

```

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

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

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

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

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

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

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

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

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

    (min_year, max_year) = self.year_range (years)

```



```

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file (dir, filename):
    max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

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

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

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

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != "":
            self.errors.report (pathname,
                                'trailing characters in @set: '
                                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.

```

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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)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        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)
        os.fchmod (file.fileno(), mode)
    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)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:

```

```

for chosen_dir in self.chosen_dirs:
    canon_dir = os.path.join (chosen_dir, "")
    count = 0
    for (dir, filter) in self.dirs:
        if (dir + os.sep).startswith (canon_dir):
            count += 1
            self.copyright.process_tree (dir, filter)
    if count == 0:
        self.errors.report (None, 'unrecognised directory: '
                             + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#-----

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

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

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

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

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

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

            # Handled separately.
            'testsuite',
        ])

```

```

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

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set ([
    # Old news won't be updated.
    'ONEWS',
])

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

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

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
            return True
        return GenericFilter.skip_file (self, dir, filename)

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

        self.skip_extensions |= set ([

```

```

        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

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

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

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

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

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

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

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

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

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

```



```

Copyright.__init__(self, errors)

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

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Intel Corporation')
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 ('gotools')
self.add_dir ('include')
# intl is imported from upstream.
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcc1')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
# libgo is imported from upstream.
self.add_dir ('libgomp')
self.add_dir ('libhsail-rt')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

```

```

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',

```

```
'libobjc',  
'libssp',  
'libstdc++-v3',  
'libvtv',  
'lto-plugin',  
]
```

GCCCmdLine().main()

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@enumerate a

@item

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@item

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@enumerate a

@item

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@item

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

@item

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you

received the object code with such an offer, in accord with subsection 6b.

@item

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

@item

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

@end enumerate

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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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@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"`.

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```
@c man end
.\" 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'
.ie n {\
. 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
.el .ds Aq '
.\"
.\" 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 {\
. ds #H 0
. ds #V .8m
. ds #F .3m
. ds #[ \f1
. ds #] \fP
.\}
.if t {\
. ds #H ((1u-(\\n(.fu%2u))*13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n {\
. ds ' \&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t {\
. ds ' \k:h'-(\n(.wu*8/10-\*(#H)^\h''\n:u"
. ds ` \k:h'-(\n(.wu*8/10-\*(#H)^\h''\n:u'
. ds ^ \k:h'-(\n(.wu*10/11-\*(#H)^\h''\n:u'
. ds , \k:h'-(\n(.wu*8/10),h''\n:u'
. ds ~ \k:h'-(\n(.wu-\*(#H-.1m)~\h''\n:u'
. ds / \k:h'-(\n(.wu*8/10-\*(#H)^\z<slh''\n:u'

```

```

.\}
. \ " troff and (daisy-wheel) nroff accents
.ds : \k:h'-(\n(.wu*8/10-\*(#H+.1m+\*(#F)\v'-\*(#V)z.\h'.2m+\*(#F'.\h'\n:u\v'\*(#V'
.ds 8 \h'\*(#H\(*b)h'-\*(#H'
.ds o \k:h'-(\n(.wu+\w'\(de'u-\*(#H)/2u\v'-.3n\*(#[z\(\de\v'.3n'h'\n:u'\*(#)
.ds d- \h'\*(#H\(\pd|h'-\w'~'u\v'-.25m^f2\(\hy\fp\v'.25m^h'-\*(#H'
.ds D- D\k:h'-\w'D'u\v'-.11m^z\(\hy\v'.11m^h'\n:u'
.ds th \*(#[[v'.3m^s+1I\s-1\v'-.3m^h'-(\w'I'u*2/3)\s-1o\s+1\*(#)
.ds Th \*(#[[s+2I\s-2|h'-\w'I'u*3/5\v'-.3m^o\v'.3m'\*(#)
.ds ae a|h'-(\w'a'u*4/10)'e
.ds Ae A|h'-(\w'A'u*4/10)'E
. \ " corrections for vroff
.if v .ds ~ \k:h'-(\n(.wu*9/10-\*(#H)\s-2\u~\d\s+2h'\n:u'
.if v .ds ^ \k:h'-(\n(.wu*10/11-\*(#H)\v'-.4m^v'.4m^h'\n:u'
. \ " for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
\{\
. ds : e
. ds 8 ss
. ds o a
. ds d- d|h'-1\(\ga
. ds D- D|h'-1\(\hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\" =====
.\"
.IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
.\" For nroff, turn off justification. Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\& Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
\&
\& Everyone is permitted to copy and distribute verbatim copies of this

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& license document, but changing it is not allowed.

.Ve

.SS "Preamble"

.IX Subsection "Preamble"

The \s-1GNU\s0 General Public License is a free, copyleft license for software and other kinds of works.

.PP

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the \s-1GNU\s0 General Public License is intended to guarantee your freedom to share and change all versions of a program\\*(-to make sure it remains free software for all its users. We, the Free Software Foundation, use the \s-1GNU\s0 General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

.PP

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

.PP

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.PP

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

.PP

Developers that use the \s-1GNU GPL\s0 protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

.PP

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."

\&\\*(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.

.Sp

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

.Sp

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

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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.

.Sp

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. \\*(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.

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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.

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

.IP "2. Basic Permissions." 4

.IX Item "2. Basic Permissions."

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.Sp

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

.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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When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is 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 work's users, your or third parties' legal rights to forbid circumvention of technological measures.

.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.

.Sp

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 \\*(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.

.RE

.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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.RS 4

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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-IROM\s0).

.Sp

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.

.RE

.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

\&\\*(L"Additional permissions\\*(R" are terms that supplement the terms of this License by making exceptions from one or more of its conditions.

Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

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.Sp

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

.RS 4

.IP "a." 4

.IX Item "a."

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.IP "b." 4

.IX Item "b."

Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

.IP "c." 4

.IX Item "c."

Prohibiting misrepresentation of the origin of that material, or

requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

.IP "d." 4

.IX Item "d."

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.IP "e." 4

.IX Item "e."

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.IP "f." 4

.IX Item "f."

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.RS 4

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.Sp

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.

.Sp

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.

.RE

.IP "8. Termination." 4

.IX Item "8. Termination."

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.IP "9. Acceptance Not Required for Having Copies." 4

.IX Item "9. Acceptance Not Required for Having Copies."

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.IP "10. Automatic Licensing of Downstream Recipients." 4

.IX Item "10. Automatic Licensing of Downstream Recipients."

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.IP "11. Patents." 4

.IX Item "11. Patents."

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.IP "12. No Surrender of Others' Freedom." 4

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

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.IP "13. Use with the `GNU Affero General Public License`." 4

.IX Item "13. Use with the GNU Affero General Public License."

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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." 4

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

If the disclaimer of warranty and limitation of liability provided

above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

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

.IX Subsection "END OF TERMS AND CONDITIONS"

.SS "How to Apply These Terms to Your New Programs"

.IX Subsection "How to Apply These Terms to Your New Programs"

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

.PP

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 \\*(L"copyright\\*(R" line and a pointer to where the full notice is found.

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.Vb 2

\& <one line to give the program\\*(Aqs name and a brief idea of what it does.>

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```
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```

```
\emph{% (edition)s }
```

```
\begin{DUlineblock}{0em}
```

```
\item[] Version %(version)s
```

```
\item[] Date: %(date)s
```

```
\end{DUlineblock}
```

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```
/* Definitions for BSD assembler syntax for Intel 386
```

```
(actually AT&T syntax for insns and operands,
```

```
adapted to BSD conventions for symbol names and debugging.)
```

```
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```

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```
<http://www.gnu.org/licenses/>. */
```

```
/* 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

```

-----

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

```
-----
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id="manual.intro.status.license.gpl"></a>The Code: GPL</h3></div></div></div><p>
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inputtoan assembler, loader, linkerand/or execution<br />  
phase.Notwithstandingthat,TargetCodedoesnotincludedatainany<br />  
formatthat is used as a compiler intermediate representation, or used<br />  
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JavaVirtualMachinebytecode,intoTargetCode.Thus,forexample,<br />  
useofsourcecodegeneratorsandpreprocessorsneednotbeconsidered<br />  
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</simpara>

<simpara>

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

</simpara>

</appendix>

<appendix xmlns="http://docbook.org/ns/docbook" version="5.0"

xml:id="appendix.gpl-3.0"><info><title>

<acronym>GNU</acronym> General Public License version 3

</title></info>

<?dbhtml filename="appendix\_gpl.html"?)>

<para>

Version 3, 29 June 2007

</para>

<para>

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<link xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.fsf.org">http://www.fsf.org/</link>

</para>

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</para>

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

Preamble

</bridgehead>

<para>

The <acronym>GNU</acronym> General Public License is a free, copyleft license for software and other kinds of works.

</para>

<para>

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the <acronym>GNU</acronym> General Public License is intended to guarantee your freedom to share and change all versions of a program to make sure it remains free software for all its users. We, the Free Software Foundation, use the <acronym>GNU</acronym> General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

For the developers and authors protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this free software. For both users and authors sake, the <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.

</para>

<para>

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 <acronym>GPL</acronym> 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 <acronym>GPL</acronym>, as needed to protect the freedom of users.

</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>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

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

0. Definitions.

</bridgehead>

<para>

This License refers to version 3 of the <acronym>GNU</acronym> General Public License.

</para>

<para>

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

</para>

<para>

The Program refers to any copyrightable work licensed under this License. Each licensee is addressed as you.

Licensees and recipients may be individuals or organizations.

</para>

<para>

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

</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 or without modification), making available to the public, and in some 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 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>

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

2. Basic Permissions.

</bridgehead>

<para>

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met.



This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

</para>

<para>

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

</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>

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

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

</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>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is 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 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">

<listitem>

<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>

<listitem>

<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>

<listitem>

<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 this License to apply to the other parts of the aggregate.

</para>

<bridgehead 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">

<listitem>

<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 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.

</para>

</listitem>

<listitem>

<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.

</para>

</listitem>

<listitem>

<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.

</para>

</listitem>

<listitem>

<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.

</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.

</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.

</para>

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

7. Additional Terms.

</bridgehead>

<para>

Additional permissions are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those

permissions, but the entire Program remains governed by this License without regard to the additional permissions.

</para>

<para>

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

</para>

<para>

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

</para>

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

<listitem>

<para>

Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

</para>

</listitem>

<listitem>

<para>

Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

</para>

</listitem>

<listitem>

<para>

Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

</para>

</listitem>

<listitem>

<para>

Limiting the use for publicity purposes of names of licensors or authors of the material; or

</para>

</listitem>

<listitem>

<para>

Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

</para>

</listitem>

<listitem>

<para>

Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

</para>

</listitem>

</orderedlist>

<para>

All other non-permissive additional terms are considered further restrictions within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

</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>

<para>

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

</para>

<para>

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, 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 permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of 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.

</para>

<para>

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

</para>

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

9. Acceptance Not Required for Having Copies.

</bridgehead>

<para>

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

</para>

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

10. Automatic Licensing of Downstream Recipients.

</bridgehead>

<para>

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</para>

<para>

An entity transaction is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.



</para>

<para>

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

</para>

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

11. Patents.

</bridgehead>

<para>

A contributor is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributors contributor version.

</para>

<para>

A contributors essential patent claims are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, control includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

</para>

<para>

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</para>

<para>

In the following three paragraphs, a patent license is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To grant such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

</para>

<para>

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1)

cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. Knowingly relying means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipients use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

</para>

<para>

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

</para>

<para>

A patent license is discriminatory if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

</para>

<para>

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

</para>

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

12. No Surrender of Others Freedom.

</bridgehead>

<para>

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you

to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

</para>

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

13. Use with the <acronym>GNU</acronym> Affero General Public License.

</bridgehead>

<para>

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the <acronym>GNU</acronym> Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the <acronym>GNU</acronym> Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

</para>

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

14. Revised Versions of this License.

</bridgehead>

<para>

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

</para>

<para>

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the <acronym>GNU</acronym> General Public License or any later version applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the <acronym>GNU</acronym> General Public License, you may choose any version ever published by the Free Software Foundation.

</para>

<para>

If the Program specifies that a proxy can decide which future versions of the <acronym>GNU</acronym> General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

</para>

<para>

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

</para>

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

#### 15. Disclaimer of Warranty.

</bridgehead>

<para>

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</para>

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

#### 16. Limitation of Liability.

</bridgehead>

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</appendix>  
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## 2.26 zlib1g 1:1.2.11.dfsg-0ubuntu2

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## 3.1 bsduutils 1:2.31.1-0.4ubuntu3.4

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Ty Coon, President of Vice

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rd>k|R>aXrvXS~"9=U\$puaqQb;k,RD5(fu&#  
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1%QsS|11np#\_(~\*uM%S61opMG`YfRXvY[R+t[ BS=)d;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[  
BS=)d;\*!;\_>KfB }&ea)F~H#@|DExb  
Fw=|  
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;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXx+sS|11np#\_(~\*uM%S61opMG`YfRXvY[R+t[ BS=)d

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## 3.3 libboost-system1.65.1 1.67.0-7

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

#### HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny ([kenny@m.cs.uiuc.edu](mailto: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(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

[/=====

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  - implemented file-format e.g. WKB
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]
```

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements  
for an [[@../../../../libs/mpl/doc/refmanual/integral-constant.html](http://www.boost.org/libs/mpl/doc/refmanual/integral-constant.html) Integral Constant type].

Please note that these types no longer inherit from `mpl::true\_` or `mpl::false\_` etc, and the library

will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

```
[endsect]
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*
*/

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

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

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

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
```

```

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

```

```

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

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

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
        "<html>\n"
        "<head>\n"
        "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
        "</title>\n"
        "</head>\n"
        "<body>\n"
        "<H1>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
        "</H1>\n"
        "<H2>Contents</h2>\n"

```

```

    <pre><a href="#"#input">Input Information</a>\n";
if(!m_bsl_summary_mode)
    os << "<a href="#"#summary">Licence Summary</a>\n";
os << "<a href="#"#details">Licence Details</a>\n";

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

os << "<a href="#"#files">Files with no recognised license</a>\n"
    "<a href="#"#authors">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
    os <<
        "Moving to the Boost Software License...\n"
        " <a href="#"#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n"
        " <a href="#"#to-bsl">Files that can be manually converted to the Boost Software License</a>\n"
        " <a href="#"#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
        " <a href="#"#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n"
        "<a href="#"#copyright">Copyright Holder Information</a>\n";
}
os <<
    "<a href="#"#depend">File Dependency Information</a>\n"
    "</pre>";

//
// input Information:
//
os << "<a name='input'"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
else
    os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,

```

```

// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex)
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
<< "</P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name=\"summary\"></a><h2>Licence Summary</h2>\n";
    while(i != j)
    {
        // title:
        os <<
            "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size()
            << " authors and " << i->second.files.size()
            << " files <a href=\"#\" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
        os << "</P></BLOCKQUOTE>\n";
        ++i;
    }
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
while(i != j)

```

```

{
  // title:
  os <<
    "<H3><A name=\"\" << make_link_target(licenses.first[i->first].license_name)
    << \"></a>" << licenses.first[i->first].license_name << "</H3>\n";
  // license text:
  os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
  if(!m_bsl_summary_mode || (license_index >= 3))
  {
    // Copyright holders:
    os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
    std::set<std::string>::const_iterator x, y;
    x = i->second.authors.begin();
    y = i->second.authors.end();
    while(x != y)
    {
      os << *x << "<BR>\n";
      ++x;
    }
    os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
    os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
    std::set<fs::path, path_less>::const_iterator m, n;
    m = i->second.files.begin();
    n = i->second.files.end();
    while(m != n)
    {
      os << split_path(m_boost_path, *m) << "<br>\n";
      ++m;
    }
    os << "</P></BLOCKQUOTE>\n";
  }
  else
  {
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
  }
  ++license_index;
  ++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";

```



```

std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
        << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
            ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
            ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
                << "</tt><br>\n<table border=\"1\">\n <tr>\n <td><pre>"
                << i->second.first << "</pre></td>\n <td><pre>"
                << i->second.second << "</pre></td>\n </tr>\n</table>\n";
            ++i;
        }
    }
}

```

```

    ++file_num;
  }
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
License</h2>\n"
"<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
  std::ostream_iterator<std::string>(os, "<br>\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();

```

```

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

//
// output file dependency information:
//
os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)

```

```

{
  os << split_path(m_boost_path, *fi);
  dep = m_dependencies.find(*fi);
  last_dep = m_dependencies.end();
  std::set<fs::path, path_less> seen_deps;
  if (dep != last_dep)
    while(true)
      {
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
          os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
          os << split_path(fs::path(), dep->second);
        else
          os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
          {
            os << " <I>(Circular dependency!)</I>";
            break; // circular dependency!!!
          }
        seen_deps.insert(dep->second);
        last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
          break;
      }
  os << "\n";
  ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

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

}
[article Copyright Test
[quickbook 1.5]
[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]
[copyright 1977,1985 Someone else]
]

```

```

[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>

```

[article Invalid copyright

[quickbook 1.5]

[copyright No year]

]

Maybe this should pass?

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

```

/+ \
+ \ Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
\ + /

```

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

## HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny ([kenny@m.cs.uiuc.edu](mailto: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](mailto:brazile@diamond.bbn.com)) originally supplied the ULTRIX code. Al Dosser ([dosser@src.dec.com](mailto:dosser@src.dec.com)) and Regis Cridlig ([Regis.Cridlig@cl.cam.ac.uk](mailto:Regis.Cridlig@cl.cam.ac.uk)) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel ([parag@netcom.com](mailto:parag@netcom.com)) supplied the A/UX code. Jesper Peterson ([jep@mtiame.mtia.oz.au](mailto:jep@mtiame.mtia.oz.au)), Michel Schinz, and Martin Tauchmann ([martintauchmann@bigfoot.com](mailto:martintauchmann@bigfoot.com)) supplied the Amiga port. Thomas Funke ([thf@zelator.in-berlin.de\(?\)](mailto:thf@zelator.in-berlin.de(?))) and Brian D. Carlstrom ([bdc@clark.lcs.mit.edu](mailto:bdc@clark.lcs.mit.edu)) supplied the NeXT ports. Douglas Steel ([doug@wg.icl.co.uk](mailto:doug@wg.icl.co.uk)) provided ICL DRS6000 code. Bill Janssen ([janssen@parc.xerox.com](mailto:janssen@parc.xerox.com)) supplied the SunOS dynamic loader specific code. Manuel Serrano ([serrano@cornas.inria.fr](mailto: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](mailto:detlefs@src.dec.com)) also provided several generic bug fixes. Alistair G. Crooks ([agc@uts.amdahl.com](mailto: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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The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

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Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)  
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)  
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)  
Mac Murrett (mmurrett -at- mac.com)  
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)  
Michael Glassford (glassfordm - at - hotmail.com)

Michael Stevens (Michael.Stevens - at - epost.de)  
Multi Media Ltd. (pdimov@mmltd.net)  
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)  
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)  
Paul Mensoides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)  
Pavol Droba (droba -at- topmail.sk)  
Peter Dimov (pdimov@mmltd.net)  
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)  
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)  
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)  
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)  
Robert Ramey (ramey@www.rrsd.com)  
Roland Richter (roland -at- fill.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)  
Roland Schwarz (roland.schwarz -at- chello.at)  
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)  
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)  
Stefan Seefeld (seefeld -at- sympatico.ca)  
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)  
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Vladimir Prus (ghost@cs.msu.su)  
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)  
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)  
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

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```
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<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="..index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="up" href="..index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
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<td align="center"><a href="..libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="..more/index.htm">More</a></td>
</tr></table>
<hr>
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<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="..index.html"></a><a accesskey="h"
href="..index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
<div class="section">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
```

Interoperability</a>

</h2></div></div></div>

<p>

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type](http://www.boost.org/libs/mpl/doc/refmanual/integral-constant.html).

</p>

<p>

Please note that these types no longer inherit from `mpl::integral_constant` or `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

</p>

</div>

<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>

<td align="left"></td>

<td align="right"><div class="copyright-footer">Copyright © 2000, 2011 Adobe Systems Inc, David Abrahams,

Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant, Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven Watanabe<p>

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</p>

</div></td>

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<div class="spirit-nav">

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</div>

</body>

</html>

[/

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]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [[@../.../libs/mpl/doc/refmanual/integral-constant.html](http://@../.../libs/mpl/doc/refmanual/integral-constant.html) Integral Constant type].

Please note that these types no longer inherit from `mpl::true_`` or `mpl::false_`` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant`` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

[endsect]

```
////////////////////////////////////
```

```
//
```

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```

```
//
```

```
// See http://www.boost.org/libs/intrusive for documentation.
```

```
//
```

```
////////////////////////////////////
```

```
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

```
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

```
#ifndef BOOST_CONFIG_HPP
```

```
# include <boost/config.hpp>
```

```
#endif
```

```
#if defined(BOOST_HAS_PRAGMA_ONCE)
```

```
# pragma once
```

```
#endif
```

```
#include <boost/intrusive/detail/config_begin.hpp>
```

```
#include <boost/move/detail/type_traits.hpp>
```

```
#include <cstdint>
```

```
namespace boost {
```

```
namespace intrusive {
```

```
namespace detail {
```

```
using boost::move_detail::is_same;
```

```
using boost::move_detail::add_const;
```

```
using boost::move_detail::remove_const;
```

```
using boost::move_detail::remove_cv;
```

```
using boost::move_detail::remove_reference;
```

```

using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

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

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

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

```

```

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \
template <typename T> \
struct boost_intrusive_has_type_ ## TNAME \
{ \
    template <typename X> \
    static char test(int, typename X::TNAME*); \
 \
    template <typename X> \
    static int test(...); \
 \
    static const bool value = (1 == sizeof(test<T>(0, 0))); \
}; \
 \
template <typename T, typename DefaultType> \
struct boost_intrusive_default_type_ ## TNAME \
{ \
    struct DefaultWrap { typedef DefaultType TNAME; }; \
 \
    typedef typename \
        ::boost::intrusive::detail::if_c \
        < boost_intrusive_has_type_ ## TNAME<T>::value \
        , T, DefaultWrap>::type::TNAME type; \
}; \
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, \
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \
        boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME) \
    INSTANTIATION_NS_PREFIX \
        boost_intrusive_has_type_ ## TNAME< T >::value \
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
template <typename T, typename DefaultType> \
struct boost_intrusive_eval_default_type_ ## TNAME \
{ \
    template <typename X> \
    static char test(int, typename X::TNAME*); \
 \
    template <typename X> \
    static int test(...); \
 \
}

```



```

struct DefaultWrap
{ typedef typename DefaultType::type TNAME; };

static const bool value = (1 == sizeof(test<T>(0, 0)));

typedef typename
::boost::intrusive::detail::eval_if_c
< value
, ::boost::intrusive::detail::identity<T>
, ::boost::intrusive::detail::identity<DefaultWrap>
>::type::TNAME type;
};

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type

//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
    template<bool Add>\
    struct two_or_three {yes_type _[2 + Add];};\
    template <class U> static yes_type test(...);\
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
    static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
template <typename U, typename Signature> \
class TRAITS_NAME \
{\
private: \
    template<Signature> struct helper;\
    template<typename T> \
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \
}

```

```

template<typename T> static ::boost::intrusive::detail::no_type test(...); \
public: \
static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{ \
struct BaseMixin \
{ \
void FUNC_NAME(); \
}; \
struct Base : public Type, public BaseMixin { Base(); }; \
template <typename T, T t> class Helper{}; \
template <typename U> \
static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*), &U::FUNC_NAME>* = 0); \
static ::boost::intrusive::detail::yes_type test(...); \
static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, \
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
\
\
template <typename Type, class> \
struct TRAITS_NAME \
: public TRAITS_NAME##_ignore_signature<Type> \
{}; \
//

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

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

```

```

def authors(filename):
    log = run(['git', 'log', '--follow',
              '--date=short', '--format=%aN%x09% ad', filename],
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('\t')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
    return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
    for i, line in enumerate(content[:15]):
        m = re.match(r'^((?P<prefix>\W*)(\c))?\s*?copyright\s*(\c)?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
line, re.IGNORECASE)
        if m:
            d = m.groupdict()
            prefix.add(d['prefix'])
            lines.append(i)
            names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]

    print filename
    new = iter(new_copyright(filename, names))

```

```

with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
    pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)
http_parser.c is based on src/http/nginx_http_parse.c from NGINX copyright
Igor Sysoev.

```

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```
<?xml version="1.0" encoding="utf-8"?>
```

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```

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```

```
(See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE\_1\_0.txt)
```

```
-->
```

```
<section id="date_time.license">
```

```
<title>Boost Date-Time Library License</title>
```

```
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
```

```
<!--
```

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```

```
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```

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format="GIF"
```

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fileref="../../boost.png"
```

```
alt="C++ Boost" />
```

```
</ulink>-->
```

```
<!--hr /-->
```

```
<para>
```

The following is the overall license for the boost date\_time library. This notice is found in all source files related to the library.

```
</para>
```

```
<para>
```

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```
</para>
```

```
<para>
```

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<!--hr / -->

<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>  
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</section>

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//

// See <http://www.boost.org/libs/container> for documentation.

//

////////////////////////////////////////////////////////////////

#ifndef BOOST\_CONTAINER\_CONTAINER\_DETAIL\_MPL\_HPP

#define BOOST\_CONTAINER\_CONTAINER\_DETAIL\_MPL\_HPP

#ifndef BOOST\_CONFIG\_HPP

# include <boost/config.hpp>

#endif

#if defined(BOOST\_HAS\_PRAGMA\_ONCE)

# pragma once

#endif

#include <boost/container/detail/config\_begin.hpp>

#include <boost/container/detail/workaround.hpp>

#include <boost/move/detail/type\_traits.hpp>

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

#include <cstddef>

namespace boost {

namespace container {

namespace dtl {

using boost::move\_detail::integral\_constant;

using boost::move\_detail::true\_type;

using boost::move\_detail::false\_type;

using boost::move\_detail::enable\_if\_c;

using boost::move\_detail::enable\_if;

using boost::move\_detail::enable\_if\_convertible;

using boost::move\_detail::disable\_if\_c;

```

using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    { return x.first; }

    template<class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first); }
};

} //namespace dtl {
} //namespace container {
} //namespace boost {

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

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
[/
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```
////
```

```
 [#mpl]
```

```
# MPL Support, <boost/mp11/mpl.hpp>
```

```
:toc:
```

```
:toc-title:
```

```
:idprefix:
```

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link: `../../libs/mpl[MPL]` sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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```
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```

```
#include <boost/mpl/push_back.hpp>
```

```
#include <boost/mpl/vector.hpp>
```

```
template <int i>
```

```
struct t { };
```

```
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
```

```
int main() { }
```

```
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```

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```
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```

```
#include <boost/mpl/fold.hpp>
```

```
#include <boost/mpl/push_back.hpp>
```

```
#include <boost/mpl/quote.hpp>
```

```
#include <boost/mpl/vector.hpp>
```

```
template <typename State, typename X>
```

```
struct f { using type = X; };
```



```

struct state { };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() { }
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```

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```
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```

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```
=====]
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//
// See http://www.boost.org/libs/interprocess for documentation.
//
////////////////////////////////////
```

```
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
```

```
#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif
```

```
#include <cstddef>
```

```
namespace boost {
namespace interprocess {
namespace ipcdetail {
```

```

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

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

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

typedef true_ true_type;
typedef false_ false_type;

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

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

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

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

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

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

```

```

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

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

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

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

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

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

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

```

## 3.4 libbsd0 0.8.7-1

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include/bsd/unistd.h  
src/bsd\_getopt.c  
src/err.c  
src/fgetln.c  
src/progname.c

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include/bsd/sys/bitstring.h  
include/bsd/sys/queue.h



include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
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src/strmode.c  
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man/fmtcheck.3bsd

man/humanize\_number.3bsd

man/stringlist.3bsd

man/timeval.3bsd

src/fmtcheck.c

src/humanize\_number.c

src/stringlist.c

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man/getpeereid.3bsd  
man/pidfile.3bsd  
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src/fparseln.c

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Files:

include/bsd/readpassphrase.h  
man/readpassphrase.3bsd

man/strncpy.3bsd  
man/strtonum.3bsd  
src/arc4random.c  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
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src/strcat.c  
src/strncpy.c  
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Files:

src/inet\_net\_pton.c

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include/bsd/md5.h

src/hash/md5.c

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Files:

src/explicit\_bzero.c

src/chacha\_private.h

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Files:

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src/hash/md5hl.c

src/hash/helper.c

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## 3.5 libc6 2.27-3ubuntu1

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## 3.8 libgpg-error01 1.27-6

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## 3.9 libstdc++6 8.3.0

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```
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```

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```
<?xml version="1.0" encoding='UTF-8'?>
<!DOCTYPE article PUBLIC "-//OASIS//DTD DocBook V4.5//EN"
"http://www.oasis-open.org/docbook/xml/4.5/docbookx.dtd">
<!-- faq-copyright.xml -->

<qandadiv id="faq.copyright">
<title>Copyright</title>

<qandaentry id="faq.what.copyright">
<question><para>What are the copyrights?</para></question>

<answer>
<para>Please see <ulink url="https://cygwin.com/licensing.html"/>
for more information about Cygwin copyright and licensing.</para>
</answer>
</qandaentry>
</qandadiv>
<?xml version="1.0" encoding='UTF-8'?>
<!DOCTYPE legalnotice PUBLIC "-//OASIS//DTD DocBook V4.5//EN"
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"http://www.oasis-open.org/docbook/xml/4.5/docbookx.dtd">

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

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Version 2, June 1991

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

=====

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended

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

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Version 3, 29 June 2007

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(19) - FTDI (ft32-\* targets)

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```
#!/usr/bin/python
#
# Copyright (C) 2013-2018 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.py --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.py --this-year libitm
#
# would run the script on just libitm/.
#
```

```
# 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',
'letsugar.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+&copy;')

```

```

'|[Cc]opyright\s+@copyright{ }'
'copyright = u\"
'|@set\s+copyright[\\w-]+)'

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

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

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

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
                                     re.IGNORECASE)
self.comment_re = re.compile('#+[*]+;+|%+//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

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

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

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

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

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

class BadYear():

```

```

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

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

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

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

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

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

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

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)

```

```

if match:
    line = line[match.end():].rstrip()
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):].rstrip()
        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)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        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)
        os.fchmod (file.fileno(), mode)
    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)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, "")
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                                         + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

```

#-----

```

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

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

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

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

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

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

            # Handled separately.
            'testsuite',
        ])

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

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):

```

```

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

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

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
        return True
    return GenericFilter.skip_file (self, dir, filename)

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

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

            # Automatically-generated.
            '.pot',
        ])

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

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',

```

```

    )

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

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

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

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

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

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

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

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

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')

```

```

self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Intel Corporation')
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 ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')

```

```

# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
# libgo is imported from upstream.
self.add_dir ('libgomp')
self.add_dir ('libhsail-rt')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir ('libquadmath')
# libsantizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

```

GCCCmdLine().main()

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If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively 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}

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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

You should have received a copy of the GNU General Public License along with this program. If not, see [@url{http://www.gnu.org/licenses/}](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/}](http://www.gnu.org/licenses/).

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read [@url{http://www.gnu.org/philosophy/why-not-lgpl.html}](http://www.gnu.org/philosophy/why-not-lgpl.html).

```
@c man end
.\" 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'
.ie n \{\
. 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
.el .ds Aq '
.\"
.\" 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 {\
. ds #H 0
. ds #V .8m
. ds #F .3m
. ds #[ \f1
. ds #] \fP
.\}
.if t {\
. ds #H ((1u-(\\n(.fu%2u))* .13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n {\
. ds ' \&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t {\
. ds ' \k:\h'-(\n(.wu*8/10-*(#H)^\h''\n:u"
. ds ` \k:\h'-(\n(.wu*8/10-*(#H)^\h''\n:u'
. ds ^ \k:\h'-(\n(.wu*10/11-*(#H)^\h''\n:u'
. ds , \k:\h'-(\n(.wu*8/10)',h''\n:u'
. ds ~ \k:\h'-(\n(.wu-*(#H-.1m)~\h''\n:u'
. ds / \k:\h'-(\n(.wu*8/10-*(#H)\z(sl'h''\n:u'
.\}
. \" troff and (daisy-wheel) nroff accents
.ds : \k:\h'-(\n(.wu*8/10-*(#H+.1m+*(#F)\v'-*(#V)\z.\h'.2m+*(#F'.\h''\n:u'\v'*(#V'
.ds 8 \h''*(#H'(*b'h'-*(#H'
.ds o \k:\h'-(\n(.wu+|w|(de'u-*(#H)/2u'\v'-.3n''*(#[z|(de\v'.3n'h''\n:u''*(#)
.ds d- \h''*(#H'(\pd|h'-\w'~'u'\v'-.25m'\f2(\hy\fP\v'.25m'\h'-*(#H'
.ds D- D\k:\h'-\w'D'u'\v'-.11m'\z(\hy\v'.11m'\h''\n:u'
.ds th \*(#[[v'.3m\s+1I\s-1\v'-.3m'h'-(\w'Tu*2/3)\s-1o\s+1\*(#)
.ds Th \*(#[[s+2I\s-2|h'-\w'Tu*3/5'\v'-.3m'o\v'.3m'\*(#)
.ds ae a|h'-(\w'a'u*4/10)'e

```

```

.ds Ae A\h'-(\w'A'u*4/10)'E
. \ " corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-\*(#H)\s-2\u~\d\s+2\h'\n:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-\*(#H)\v'-.4m^\v'.4m\h'\n:u'
. \ " for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
\{
. ds : e
. ds 8 ss
. ds o a
. ds d- d\h'-1\(\ga
. ds D- D\h'-1\(\hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\ " =====
.\ "
.IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
.\ " For nroff, turn off justification. Always turn off hyphenation; it makes
.\ " way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\& Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
\&
\& Everyone is permitted to copy and distribute verbatim copies of this
\& license document, but changing it is not allowed.
.Ve
.SS "Preamble"
.IX Subsection "Preamble"
The \s-1GNU\s0 General Public License is a free, copyleft license for
software and other kinds of works.
.PP
The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the \s-1GNU\s0 General Public License is intended to guarantee your freedom

```

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.PP

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.PP

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

.PP

Developers that use the \s-1GNU GPL\s0 protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

.PP

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.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."

\&\\*(L"This License\\*(R" refers to version 3 of the \s-1GNU\s0 General Public License.

.Sp

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

.Sp

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

.Sp

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

.Sp

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

.Sp

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.

.Sp

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.

.Sp

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. \\*(L"Object code\\*(R" means any non-source form of a work.

.Sp

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.

.Sp

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.

.Sp

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.

.Sp

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.

.IP "2. Basic Permissions." 4

.IX Item "2. Basic Permissions."

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.Sp

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

.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.

.Sp

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is 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 work's users, your or third parties' legal rights to forbid circumvention of technological measures.

.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.

.Sp

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 `\*(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.

.RE

.RS 4

.Sp

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.

.RE

.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.

.RE

.RS 4

.Sp

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.

.Sp

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.Vb 2

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```
\emph{%(tool)s, The %(name)s Development Environment}
```

```
\emph{%(edition)s}
```

```
\begin{DUlineblock}{0em}
```

```
\item[] Version %(version)s
```

```
\item[] Date: %(date)s
\end{DUlineblock}
```

AdaCore

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```
/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
   Copyright (C) 1988-2018 Free Software Foundation, Inc.
```

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```
/* Use the Sequent Symmetry assembler syntax. */
```

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

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

```
#define LPREFIX "L"
```

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

```
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
```

```

#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

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

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

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

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

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

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

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)), \
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
```

-----

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

```
-----
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title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next"
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align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n"
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3("GPLv3").Itappliestoagivenfile(the"RuntimeLibrary")that<br />  
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Afileisan"IndependentModule"ifiteitherrequirestheRuntime<br />  
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targetprocessorarchitecture,inexecutableformorsuitablefor<br />  
inputtoan assembler,loader,linkerand/or execution<br />  
phase.Notwithstandingthat,TargetCodedoesnotincludedatainany<br />  
formatthat is used as a compiler intermediate representation, or used<br />  
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<br />  
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JavaVirtualMachinebytecode,intoTargetCode.Thus,forexample,<br />  
useofsourcecodegeneratorsandpreprocessorsneednotbeconsidered<br />  
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understoodasstartingwiththeoutputofthegeneratorsor<br />  
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<bridgehead xml:id="fdl-1-section4" renderas="sect2">

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<simpara>

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the other copyright notices.

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Include an unaltered copy of this License.

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For any section Entitled Acknowledgements or Dedications, Preserve the Title of the section, and

preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

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Preserve any Warranty Disclaimers.

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<bridgehead xml:id="fdl-1-section5" renderas="sect2">

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The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

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<bridgehead xml:id="fdl-1-section6" renderas="sect2">

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License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

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<bridgehead xml:id="fdl-1-section7" renderas="sect2">

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</bridgehead>

<simpara>

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</simpara>

<bridgehead xml:id="fdl-1-section8" renderas="sect2">

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</simpara>

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

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</bridgehead>

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<bridgehead xml:id="fdl-1-section10" renderas="sect2">

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

## 11. RELICENSING

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

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</bridgehead>

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</simpara>

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<simpara>

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

</simpara>

<simpara>

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

</simpara>

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<para>

Version 3, 29 June 2007

</para>

<para>

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<link xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.fsf.org">http://www.fsf.org</link>

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</para>

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

Preamble

</bridgehead>

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

</para>

<para>

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 <acronym>GPL</acronym> 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 <acronym>GPL</acronym>, as needed to protect the freedom of users.

</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>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

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

0. Definitions.

</bridgehead>

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<para>

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</para>

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</para>

<para>

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</para>

<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.

</para>

<para>

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</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>

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

2. Basic Permissions.

</bridgehead>

<para>

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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>

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

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</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">

<listitem>

<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>

<listitem>

<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>

<listitem>

<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

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</para>

<bridgehead 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">

<listitem>

<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 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.

</para>

</listitem>

<listitem>

<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.

</para>

</listitem>

<listitem>

<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.

</para>

</listitem>

<listitem>

<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.

</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.

</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.

</para>

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

7. Additional Terms.

</bridgehead>

<para>

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</para>

<para>

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</para>

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

<listitem>

<para>

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</para>

</listitem>

<listitem>

<para>

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</para>

</listitem>

<listitem>

<para>

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</para>

</listitem>

<listitem>

<para>

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</para>

</listitem>

<listitem>

<para>

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<listitem>

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<para>

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</para>

<para>

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</para>

<para>

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</para>

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

8. Termination.

</bridgehead>

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<para>

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</para>

<para>

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</para>

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</para>

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

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</bridgehead>

<para>

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</para>

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

10. Automatic Licensing of Downstream Recipients.

</bridgehead>

<para>

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<para>

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

11. Patents.

</bridgehead>

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</para>

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

12. No Surrender of Others Freedom.

</bridgehead>

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</para>

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

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</bridgehead>

<para>

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</para>

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

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</bridgehead>

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<para>

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

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NECESSARY SERVICING, REPAIR OR CORRECTION.

</para>

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

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</bridgehead>

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</para>

<bridgehead xml:id="InterpretationSecs1516" renderas="sect1">

17. Interpretation of Sections 15 and 16.

</bridgehead>

<para>

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</para>

<bridgehead>

END OF TERMS AND CONDITIONS

</bridgehead>

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

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</bridgehead>

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</para>

<para>

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.

</para>

<screen>

<replaceable>one line to give the programs name and a brief idea of what it does.</replaceable>

Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

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</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</literal>.

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 the General Public License. Of course, your programs commands might be different; for a GUI interface, you would use an about box.

</para>

<para>

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</para>

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</para>

</appendix>

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Version 2.1, February 1999

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

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

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DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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Version 2, June 1991

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

Preamble

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

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

The reason we have a separate public license for some libraries is

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in

non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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

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

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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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

```
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
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```

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

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

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DRuntime: Runtime Library for the D Programming Language

=====

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```
#!/usr/bin/python
```

```
#
```

```
# Copyright (C) 2013-2018 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.py --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.py --this-year libitm
#
# would run the script on just libitm/.
#
# 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+&copy;'
    '|[Cc]opyright\s+@copyright{ }'
    '|copyright = u\"
    '|@set\s+copyright[\w-]+)'

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

def canonicalise_years (self, dir, filename, filter, years):

```

```

# Leave texinfo variables alone.
if years.startswith ('@value'):
    return years

(min_year, max_year) = self.year_range (years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file (dir, filename):
    max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

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

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

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

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != "":
            self.errors.report (pathname,
                                'trailing characters in @set: '
                                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()

```

```

except StopIteration:
    break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# 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)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        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)
        os.fchmod (file.fileno(), mode)
    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)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():

```

```

if len (self.chosen_dirs) == 0:
    self.chosen_dirs = self.default_dirs
if len (self.chosen_dirs) == 0:
    self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, ")
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
                self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: '
                                + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

```

#-----

```

class TopLevelFilter (GenericFilter):

```

```

    def skip_dir (self, dir, subdir):
        return True

```

```

class ConfigFilter (GenericFilter):

```

```

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

```

```

    def skip_file (self, dir, filename):

```

```

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

```

```

class GCCFilter (GenericFilter):

```

```

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

```

```

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

```

```

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

```

```

        # Handled separately.
        'testsuite',
    ])

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

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set ([
        # Old news won't be updated.
        'ONEWS',
    ])

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

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

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
            return True
        return GenericFilter.skip_file (self, dir, filename)

```

```

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

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

            # Automatically-generated.
            '.pot',
        ])

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

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

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

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

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

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

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

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':

```

```
    return re.compile ('//\ (C\ ) Copyright Jeremy Siek')
return GenericFilter.get_line_filter (self, dir, filename)
```

```
class GCCCopyright (Copyright):
```

```
    def __init__ (self, errors):
```

```
        Copyright.__init__ (self, errors)
```

```
        canon_fsf = 'Free Software Foundation, Inc.'
```

```
        self.add_package_author ('Free Software Foundation', canon_fsf)
```

```
        self.add_package_author ('Free Software Foundation.', canon_fsf)
```

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

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

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

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

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

```
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
```

```
        self.add_external_author ('ARM')
```

```
        self.add_external_author ('AdaCore')
```

```
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
```

```
        self.add_external_author ('Cavium Networks.')
```

```
        self.add_external_author ('Faraday Technology Corp.')
```

```
        self.add_external_author ('Florida State University')
```

```
        self.add_external_author ('Greg Colvin and Beman Dawes.')
```

```
        self.add_external_author ('Hewlett-Packard Company')
```

```
        self.add_external_author ('Intel Corporation')
```

```
        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('gotools')
self.add_dir('include')
# intl is imported from upstream.
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcc1')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
# libgo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',

```

```
'libgfortran',  
'libgomp',  
'libhsail-rt',  
'libiberty',  
'libitm',  
'libobjc',  
'libssp',  
'libstdc++-v3',  
'libvtv',  
'lto-plugin',  
]
```

GCCCmdLine().main()

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@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively 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}
```

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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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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```

@c man end
.\" Automatically generated by Pod::Man 4.11 (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'
.ie n {\
. 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\}
.e\{\
. 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
.el .ds Aq '

```

```

.\"
.\" 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
..
.nr rF 0
.if \n(.g .if rF .nr rF 1
.if (\n(rF:(\n(.g==0)) \{\
.  if \nF \{\
.    de IX
.    tm Index:\|$1\t\|n%\t"\|$2"
..
.    if !\nF==2 \{\
.      nr % 0
.      nr F 2
.    \}
.  \}
.\}
.rr rF
.\"
.\" 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 \{\
.  ds #H 0
.  ds #V .8m
.  ds #F .3m
.  ds #[ \f1
.  ds #] \fP
.\}
.if t \{\
.  ds #H ((1u-(\\n(.fu%2u)).13m)
.  ds #V .6m
.  ds #F 0
.  ds #[ \&
.  ds #] \&
.\}
.  \" simple accents for nroff and troff
.if n \{\
.  ds ' \&
.  ds ` \&
.  ds ^ \&
.  ds , \&
.  ds ~ ~

```

```

. ds /
.}
.if t {\
. ds '\k:h'-(\n(.wu*8/10-\*(#H)^\h"\\n:u"
. ds ` \k:h'-(\n(.wu*8/10-\*(#H)^\`h"\\n:u'
. ds ^ \k:h'-(\n(.wu*10/11-\*(#H)^\^h"\\n:u'
. ds , \k:h'-(\n(.wu*8/10)',h"\\n:u'
. ds ~ \k:h'-(\n(.wu-\*(#H-.1m)~\h"\\n:u'
. ds / \k:h'-(\n(.wu*8/10-\*(#H)\z(slh"\\n:u'
.}
. \" troff and (daisy-wheel) nroff accents
.ds : \k:h'-(\n(.wu*8/10-\*(#H+.1m+\*(#F)\v'-\*(#V)z.h'.2m+\*(#F'.h"\\n:u'\v'*(#V'
.ds 8 \h'*(#H'(*b'h'-\*(#H'
.ds o \k:h'-(\n(.wu+\w'(de'u-\*(#H)/2u\v'-.3n\*(#[z(de\v'.3n'h"\\n:u"*(#)
.ds d- \h'*(#H'(pd|h'-\w'~'u\v'-.25m^f2(hy|fP\v'.25m'h'-\*(#H'
.ds D- D\k:h'-\w'D'u\v'-.11m^z(hy\v'.11m'h"\\n:u'
.ds th \*(#[v'.3m^s+1I\s-1\v'-.3m'h'-(\w'Tu*2/3)\s-1o\s+1\*(#)
.ds Th \*(#[s+2I\s-2|h'-\w'Tu*3/5\v'-.3m'o\v'.3m\*(#)
.ds ae a|h'-(\w'a'u*4/10)e
.ds Ae A|h'-(\w'A'u*4/10)E
. \" corrections for vroff
.if v .ds ~ \k:h'-(\n(.wu*9/10-\*(#H)\s-2\u~\d\s+2|h"\\n:u'
.if v .ds ^ \k:h'-(\n(.wu*10/11-\*(#H)\v'-.4m^\v'.4m'h"\\n:u'
. \" for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
{\
. ds : e
. ds 8 ss
. ds o a
. ds d- d|h'-1\ga
. ds D- D|h'-1\hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.}
.rm #[ #] #H #V #F C
.\" =====
.\"
.IX Title "GPL 7"
.TH GPL 7 "2019-02-22" "gcc-8.3.0" "GNU"
.\" For nroff, turn off justification. Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"

```

```
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\&    Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
\&
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\&    license document, but changing it is not allowed.
.Ve
.SS "Preamble"
.IX Subsection "Preamble"
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.PP
```

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.PP

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.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."

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.Sp

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.Sp

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.Sp

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.Sp



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.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. **(L"Object code"**(R) means any non-source form of a work.

.Sp

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.

.Sp

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.

.Sp

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.

.Sp

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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.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4

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

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.IX Item "4. Conveying Verbatim Copies."

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.Sp

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 `\*(L"keep intact all notices\*(R"`.

.IP "c." 4

.IX Item "c."

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.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.

.RE

.RS 4

.Sp

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.RE

.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."

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.IP "e." 4

.IX Item "e."

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```
\emph{% (tool)s, The % (name)s Development Environment}
```

```
\emph{% (edition)s}
```

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```
\item[] Version %(version)s
```

```
\item[] Date: %(date)s
```

```
\end{DUlineblock}
```

AdaCore

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/\* Definitions for BSD assembler syntax for Intel 386

(actually AT&T syntax for insns and operands,

adapted to BSD conventions for symbol names and debugging.)

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/\* Use the Sequent Symmetry assembler syntax. \*/

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

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

#define LPREFIX "L"

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

#define ASM\_BYTE "\t.byte\t"

#define ASM\_SHORT "\t.word\t"

#define ASM\_LONG "\t.long\t"

#define ASM\_QUAD "\t.quad\t" /\* Should not be used for 32bit compilation. \*/

/\* This was suggested, but it shouldn't be right for DBX output. -- RMS

#define ASM\_OUTPUT\_SOURCE\_FILENAME(FILE, NAME) \*/

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

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

#define ASM\_OUTPUT\_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space " HOST\_WIDE\_INT\_PRINT\_UNSIGNED"\n", (SIZE))

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

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

#define ASM\_OUTPUT\_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)), \
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

```

-----

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
 bzip2/libbzip2 version 1.0.6 of 6 September 2010

```

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<?xml version="1.0" encoding="UTF-8" standalone="no"?>
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xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>License</title><meta name="generator" content="DocBook XSL Stylesheets Vsnapshot"
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title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next"
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align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n"
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<br />
```

```
Everyoneispermittedtocopyanddistributeverbatimcopiesofthis<br />
licensedocument,butchangingitisnotallowed.<br />
<br />
```

```
ThisGCCRuntimeLibraryException("Exception")isanadditional<br />
permissionundersection7oftheGNUGeneralPublicLicense,version<br />
3("GPLv3").Itappliestoagivenfile(the"RuntimeLibrary")that<br />
bearsanoticeplacedbythecopyrightholderofthefilestatingthat<br />
thefileisgovernedbyGPLv3alongwiththisException.<br />
<br />
```

```
WhenyouuseGCCtocompileaprogram,GCCmaycombineportionsof<br />
certainGCCheaderfilesandruntimelibrarieswiththecompiled<br />
program.ThepurposeofthisExceptionistoallowcompilationof<br />
non-GPL(includingproprietary)programstouse,inthisway,the<br />
headerfilesandruntimelibrariescoveredbythisException.<br />
<br />
```

```
0.Definitions.<br />
```

```
<br />
Afileisan"IndependentModule"ifiteitherrequirestheRuntime<br />
LibraryforexecutionafteraCompilationProcess,ormakesuseofan<br />
interfaceprovidedbytheRuntimeLibrary,butisnototherwisebased<br />
ontheRuntimeLibrary.<br />
<br />
```

```
"GCC"meansaversionoftheGNUCompilerCollection,withorwithout<br />
modifications,governedbyversion3(orspecifiedlater)of<br />
theGNUGeneralPublicLicense(GPL)withtheoptionofusingany<br />
subsequentversionspublishedbytheFSF.<br />
```

```
<br />
"GPL-compatibleSoftware"isssoftwarewhoseconditionsofpropagation,<br />
modificationandusewouldpermitcombinationwithGCCinaccordwith<br />
thelicenseofGCC.<br />
```

```
<br />
```

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<orderedlist numeration="upperalpha">

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Preserve all the copyright notices of the Document.

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Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

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Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Documents license notice.

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Include an unaltered copy of this License.

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<listitem>

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of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

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Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the History section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

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</listitem>

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<simpara>

For any section Entitled Acknowledgements or Dedications, Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

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Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

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Delete any section Entitled Endorsements. Such a section may not be included in the Modified Version.

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Do not retitle any existing section to be Entitled Endorsements or to conflict in title with any Invariant Section.

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Preserve any Warranty Disclaimers.

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If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Versions license notice. These titles must be distinct from any other section titles.

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<simpara>

You may add a section Entitled Endorsements, provided it contains nothing but endorsements of your Modified Version by various parties for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

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<bridgehead xml:id="fdl-1-section5" renderas="sect2">

## 5. COMBINING DOCUMENTS

</bridgehead>

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You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

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<simpara>

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in

parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

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In the combination, you must combine any sections Entitled History in the various original documents, forming one section Entitled History; likewise combine any sections Entitled Acknowledgements, and any sections Entitled Dedications. You must delete all sections Entitled Endorsements.

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<bridgehead xml:id="fdl-1-section6" renderas="sect2">

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</bridgehead>

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You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

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You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other 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>

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Documents Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear

on printed covers that bracket the whole aggregate.

</simpara>

<bridgehead xml:id="fdl-1-section8" renderas="sect2">

## 8. TRANSLATION

</bridgehead>

<simpara>

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</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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However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, 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.

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Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of 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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<bridgehead xml:id="fdl-1-section10" renderas="sect2">

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

## 11. RELICENSING

</bridgehead>

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

ADDENDUM: How to use this License for your documents

</bridgehead>

<simpara>

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

</simpara>

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<simpara>

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</simpara>

<screen>with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.</screen>

<simpara>

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

</simpara>

<simpara>

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.



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  Preamble
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  that you receive source code or can get it if you want it, that you can
  change the software or use pieces of it in new free programs, and that you
  know you can do these things.
</para>
<para>
  To protect your rights, we need to prevent others from denying you these
  rights or asking you to surrender the rights. Therefore, you have certain
  responsibilities if you distribute copies of the software, or if you modify
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it: responsibilities to respect the freedom of others.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

For the developers and authors protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this free software. For both users and authors sake, the <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.

</para>

<para>

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 <acronym>GPL</acronym> 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 <acronym>GPL</acronym>, as needed to protect the freedom of users.

</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>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

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

0. Definitions.

</bridgehead>

<para>

This License refers to version 3 of the <acronym>GNU</acronym> General Public License.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</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 or without modification), making available to the public, and in some 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 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>

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

2. Basic Permissions.

</bridgehead>

<para>

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<para>

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

</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>

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

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

</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>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is 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 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">

<listitem>

<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>

<listitem>

<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>

<listitem>

<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 compilation 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>

<bridgehead 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">

<listitem>

<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

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.

</para>

</listitem>

<listitem>

<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.

</para>

</listitem>

<listitem>

<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.

</para>

</listitem>

<listitem>

<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.

</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>

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</para>

</appendix>

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Version 3.1, 31 March 2009

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src/udev/udevadm-hwdb.c  
src/udev/udev-builtin.c  
src/udev/udev-builtin-net\_id.c  
src/udev/udev-builtin-net\_setup\_link.c  
src/udev/udev-builtin-hwdb.c  
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## 3.11 nlohmann.json 3.7.0

## 3.12 OpenSSL 1.0.2q

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## 4.8 normalize.css 8.0.1

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## 4.13 react-redux 7.1.0

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