Open Source Used In Meeting Server
2.8

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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 (brazil@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (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.
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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(agt@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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1.4 bridge-utils 1.5

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1.13 curl-7.62.0 7.62.0
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1.15 dhcp 4.1-ESV-R9

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1.16 dhcpcd 6.10.3

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1.17 dmidecode 2.12 :r0.0

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Gocheck - A rich testing framework for Go

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

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Theodore Ts'o
23-June-2007

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#
# 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

debug: $(BSD_LIB)
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$($(BSDLIB_VERSION)
$(RM) -f ../$(BSD_LIB)
$(MV) $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $($(BSDLIB_VERSION))

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: tdba/tdb.c
===================================================================
--- tdba.orig/tdb.c
+++ tdba/tdb.c
@@ -4,11 +4,11 @@
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/texi2pod.pl`
  - `libswresample/swresample-test.c`
  - `tests/checkasm/*`<br>  - `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_kerne deint.c`
  - `vf_mcedeint.c`
  - `vf_mpdecimate.c`
  - `vf_owdenoise.c`
  - `vf_perspective.c`
  - `vf_phase.c`
  - `vf_pp.c`
  - `vf_pp7.c`
  - `vf_pullup.c`
  - `vf_repeatfields.c`
  - `vf_sab.c`
  - `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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* 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.
The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

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The HTML documentation /usr/share/doc/ffmpeg/manual/*.html in the ffmpeg-doc package is effectively licensed under GPL-3+, because during its creation the GPL-3+ licensed file doc/2h.pm is used.

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 /* 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
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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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jloup@gzip.org          madler@alumni.caltech.edu

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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#
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#!/bin/sh
# install - install a program, script, or datafile

scriptversion=2003-09-24.23

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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)
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#

1.39 jpeg 8d
:b15539851b751df00f7a3527c5e81360

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DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

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

Other documentation files in the distribution are:

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

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.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.

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

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the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

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

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REFERENCES
==========

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...

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 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
===================

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

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
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
===================

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algorithm article, only to find out that I had come to the same result
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Thank to Thomas Wiegand and Gary Sullivan for inviting me to the
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Thank to Thomas Richter and Daniel Lee for inviting me to the
ISO/IEC JTC1/SC29/WG1 (also known as JPEG, together with ITU-T SG16)
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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
===============

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
=====

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
1.42.1 Available under license :

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1.43 Idns 1.6.17

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scriptversion=2009-04-28.21; # UTC

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Easy DNS (including DNSSEC) via ldns.

ldns is a great library. It is a powerful tool for working with DNS. python-ldns 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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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.
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Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
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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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1.51 libiconv 1.14

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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

Chinese
  EUC-CN, HZ, GBK, CP936, GB18030, EUC-TW, BIG5, CP950, BIG5-HKSCS,
  ISO-2022-CN-EXT

Korean

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  

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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1.54 libpng 1.6.37

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1.56 libva 1.2.0.pre1

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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@cf.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_nicstart() for PHY initialization to change this. This driver */
/* expects the Linux ATM stack to support scatter-gather lists */
/* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push. */
/* */
/* Implementing minimal-copy of received data: */
/* IDT always receives data into a small buffer, then large buffers */
/* as needed. This means that data must always be copied to create */
/* the linear buffer needed by most non-ATM protocol stacks (e.g. IP) */
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
   combined, allow nicstar_free_rx_skb to be called to
   recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*

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*
* M. Welsh, 6 July 1996
*
*
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            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.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 merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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* M. Welsh, 6 July 1996

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

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single nxt200x frontend driver.
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Version 2, June 1991

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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
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* M. Welsh, 6 July 1996

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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
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif
```

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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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/* 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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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
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* 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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Name: LogCabin logo colors

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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 lsof 4.85

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 * print.c - common print support functions for lsof
 */

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 */

/*
 * regex.h -- regular expression definitions for lsof
 *
 * 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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 */
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# 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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1.66 luafilesystem 1.5.0

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1.67 lualdap 1.1.0

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1.68 luaposix 5.1.28

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1.69 luuid 1.0

1.70 lvm2 2.02.79

1.70.1 Available under license:
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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_reexp);  
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 },
    { "changecom",        false,  false, false, m4_changecom },
    { "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 },
    { "ifelse",           false,  false, true,   m4_ifelse },
    { "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, true,   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 }
};
/* 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[] =
{
    #if UNIX
    { "unix", "__unix__", "" },
    #endif
    #if W32_NATIVE
    { "windows", "__windows__", "" },
    #endif
    #if OS2
    { "os2", "__os2__", "" },
    #endif
    #if !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;
}

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

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;
}

/* 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);
}

/*----------------------------------------*/
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);
```c
#define 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'",
```
/*-----------------------------------------------.
 | 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 |
static bool
badc (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')
        {
            "}\n
            /*---------------------------------*/
            the maximum number, negative if not applicable.
            `---------------------------------*/
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[] = "0123456789abcdefghijklmnopqrstuvwxyz";

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 ARGC 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 ARGC pointers to the individual arguments to the macro. Please note that in general argv[argc] != NULL. */

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

/**----------------------------------------------------------------------------
| The function define_macro is common for the builtins "define", "undefine",     |
| "pushdef" and "popdef". ARGC 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
        definebuiltin (ARG (1), bp, mode);
    break;

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

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

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:\n", SYMBOL_NAME (data.base[0]));

    switch (SYMBOL_TYPE (data.base[0]))
    {
    case TOKEN_TEXT:
        if (debug_level & DEBUG_TRACE_QUOTE)
            DEBUG_PRINT3 (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>, 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;
    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 ();
        }
    }

/*-----------------------------------------------*/
<p>| This section contains macros to handle the builtins &quot;syscmd&quot;, |</p>
<table>
<thead>
<tr>
<th>&quot;esyscmd&quot; and &quot;sysval&quot;. &quot;esyscmd&quot; is GNU specific.</th>
</tr>
</thead>
</table>

/* 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);
}

/*----------------------------------------------------------------------.
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);
}

/*-----------------------------------------------------*/

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 if (fp = m4_path_search (ARG (i), NULL))
                    insert_file (fp);
                else if (fclose (fp) == EOF)
                    M4ERROR ((warning_status, errno,
                        "error undiverting ˜\%s˜", ARG (i)));
            }
}

/*-----------------------------------------------------*/
"cannot undivert \'%s\', ARG (i));
}
}
}

/* This section contains various macros, which does not fall into any
   specific group. These are "dnl", "shift", "changequote", "changecom"
   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);
}
#endif /* 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 builts -- "maketemp", "errprint", "__file__", 
   "__line__", and "__program__". The last three are GNU specific. */

/*------------------------------------------------------------------------------.
/* 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()` \rightarrow `'
- `maketemp(X)` \rightarrow `X'
- `maketemp(XX)` \rightarrow `Xn', where n is last digit of pid
- `maketemp(XXXXXXXX)` \rightarrow `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.  |
`----------------------------------------*/

/\*----------------------------------------.
| 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 ();
    xfprintf (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 (argc >= 2 && 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] == '-'
            || 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('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);
}
/* 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;
            }
        }
    }

    return obs;
else if (from <= to)
{
    while (from++ < to)
        obstack_lgrow (obs, from);
}
else
{
    while (--from >= to)
        obstack_lgrow (obs, from);
}
else
    obstack_lgrow (obs, *s);
}
obstack_lgrow (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, "\nWarning: \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 there 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 */
    const char *msg;          /* error message from re_compile_pattern */

    struct re_pattern_buffer buf; /* compiled regular expression */
    struct re_registers regs;    /* for subexpression matches */


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, "\n  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. ARGC 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++;
        ```
1.72 MIT Kerberos V5 1.11.1

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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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29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
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42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
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45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makerover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
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57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
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59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iomsgal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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12. [13] Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
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20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
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25. [26] Jeff Johnson <sbt@chatham.usdesign.com> massive prototyping overhaul
26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpswep
27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30] Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote ntp to comply with NTPv4 specification, ntpq saveconfig
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42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
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48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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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);

------

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#endif

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 */

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

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

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0010
#define POLLHUP 0x0020
#define POLLNVAL 0x0020
#endif
/* the following are currently not implemented */
definePOLLPRI0x0002
definePOLLRDNORM0x0040
define POLLNORMPOLLRDNORM
define POLLWRNORM POLLOUT
definePOLLRDBAND0x0080
definePOLLWRBAND0x0100
#endif

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

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

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

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1.93 protobuf 3.8.0

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* 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.
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* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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1.95 ptlib 2.12.8 :6.el7

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*/
#!/bin/sh
# Configuration validation subroutine script.

timestamp='2003-08-18'

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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

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

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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.cni.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
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Mersenne Twister

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

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

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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--------

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Original location:
- https://github.com/majek/csiphash/

Solution inspired by code from:
- Samuel Neves (supercop/crypto_auth/siphash24/little)
- djb (supercop/crypto_auth/siphash24/little2)
- Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------

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1.98 python 3.5.2

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related 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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Early bug reports and patches:
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1.113 WebRTC m44

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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
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- 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_rfft.c
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 * *
 * From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
 * Date: Fri, Jun 24, 2011 at 3:20 AM
 * Subject: Re: sqrt routine
 * To: Kevin Ma <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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* g711.h - In line A-law and u-law conversion routines
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modules/audio_device/mac/portaudio/pa_memorybarrier.h
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_rdft.c

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system_wrappers/source/set_thread_name_win.h

Source:
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NOTE: getopt is now part of the C library, so if you don't know what
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with this program; if not, write to the Free Software Foundation,
Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. */

#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. */
/*
#ifndef _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. */
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;

#if defined 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. */
#endif

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

#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

#endif /* !_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
{ 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)

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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] == '\n'));
}

/* 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 ambigu = 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. */
            ambigu = 1;
    }
if (ambig && \'exact\')
{
    if (print_errors)
    {
        #if 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
    }
    #else
        fprintf (stderr, _("%s: option \'%s\' is ambiguous\n"),
            argv[0], argv[d->optind]);
    #endif
}
}

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)
            {
                d->nextchar += strlen (d->nextchar);
                d->optind++;
                d->optopt = 0;
                return '?';
            }
#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
            fprintf (stderr, _("%s: option `-%s' doesn't allow an argument\n"),
                argv[0], argv[d->optind - 1][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],
                argv[0], argv[d->optind - 1][0],
                pfound->name);
        #else
            fprintf (stderr, _("%s: option `-c%"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);
    }
free (buf);
}
#endif

} else if (pfound->has_arg == 1)
{
    if (d->optind < argc)
        d->optarg = argv[d->optind++];
    else
    {
        if (print_errors)
        {
            #if 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);

                    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' 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)
{
#if defined _LIBC && defined USE_IN_LIBIO
char *buf;
int n;
#endif
if (argv[d->optind][1] == '-')
{
/* --option */
#if defined _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 */
#if defined _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

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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
}

/* 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
n = __asprintf (&buf, _("%s: invalid option -- %c\n"), argv[0], c);
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endi
/* 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 = '?';
    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 (!strncmp (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)
{
#if 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);

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

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

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)
            {
                #if defined _LIBC && defined USE_IN_LIBIO
                char *buf;

                if (__asprintf (&buf, _("%
%s: option `-W %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;
                        _IOC_funlockfile (stderr);

                        free (buf);
                    }
                #else


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

d->__nextchar += strlen (d->__nextchar);
return '?
;

#else

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)
{
#if 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

free (buf);
#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)
      {
      /* 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)
```c

{  
    _IO_flockfile (stderr);

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

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

    ((_JOFILE *) 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.  */
#if _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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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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If such an object file uses only numerical parameters, data
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collector. Later contributions should instead be mentioned in
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HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dossere@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
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Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Jansen (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/OS/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agec@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

Boost.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
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will no longer implicitly include any MPL header. However there is an implicit conversion from
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man/humanize_number.3bsd
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man/timeval.3bsd
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src/arc4random_unix.h
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src/getentropy_aix.c
src/getentropy_bsd.c
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2.11 libexpat1 2.2.5-3

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2.12 libgcc1 1:8.2.0-1ubuntu2~18.04

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collection, containing Ada, C, C++, Fortran 95, Java, Objective-C,
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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-4.4 source package is taken from the SVN gcc-4_4-branch.
Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-4.4</td>
<td>libgnat-4.4</td>
<td>gnat-4.4-doc</td>
</tr>
<tr>
<td>C</td>
<td>gcc-4.4</td>
<td>gcc-4.4-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-4.4</td>
<td>libstdc++6</td>
<td>libstdc++6-4.4-doc</td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-4.4</td>
<td>libgfortran3</td>
<td>gfortran-4.4-doc</td>
</tr>
<tr>
<td>Java</td>
<td>gcj-4.4</td>
<td>libgcj10</td>
<td>libgcj-doc</td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-4.4</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-4.4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td></td>
<td>libstdc++6-4.4-dbg</td>
<td>libstdc++6-4.4-pic</td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>libgcj10-src</td>
<td>libgcj10-dev</td>
<td>libgcj10-dbg</td>
<td>libgcj10-dbg</td>
</tr>
</tbody>
</table>

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
libgcj10-jar Java ARchive for the Java run-time

C, C++, and Fortran 95:
libgomp1-dev, libgomp1GCC 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/system.h, gcc/typeclass.h).
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- libstdc++-v3
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Mudflap is part of GCC.

Authors: Frank Ch. Eigler <fche@redhat.com>, Graydon Hoare <graydon@redhat.com>

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#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 = -563657022231596674LL;
::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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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**<p>
 * 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;
}

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

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/**<p>
 * 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;
            }
        }
        return null;
    }
}
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 &copy; "+ tags[i].text() + "; " + 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/String;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewinPackageinTypeisInlineTagregister(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/Tag
506*([Lcom/sun/javadoc/Tag;)Ljava/lang/String;tagLcom/sun/javadoc/Tag;2::text
=?>java/lang/String@Alength()ICjava/lang/StringBuffer
BF<dl>
BHIIappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;Ljava/lang/StringBufferN<dt>i>Copyright &169;
KPQ(Ljava/lang/String;)V
KSIT-(Ljava/lang/String;)Ljava/lang/StringBuffer,V</i></dt>
KX0Z</dl>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZilresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

/* -
&.*,.2,6,.; >!B"#QY$L*+%+WFGH-.
/01A
*2Y+S4K

7806)+=>+29<=+_BYDN-EGW67+29<-%#KYO+29RURWG+-YGW-[FOPSTUVT+Z/7\]D^S_u]bcf>]}^_
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
* actual meaning of the name of the permission is defined only in the
* context of a subclass. It may name a resource to which access permissions
* are granted (for example, the name of a file) or it might represent
* something else entirely. Similarly, the action list only has meaning
* within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.
*
* <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 = -5636570222231596674L;

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

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}
public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

public abstract boolean implies(Permission perm);

public abstract boolean equals(Object obj);

public abstract int hashCode();
* @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());
    string = string.append(' ');
    string = string.append(getActions());
    string = string.append(')');

    return string.toString();
}
if (!(getActions().equals("")))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
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package java.security.acl;

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

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

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java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/Serializable

ConstantValue(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)V

Code()

V

LineNumberTableLocalVariableTablethisLjava/security/Permission;

checkGuard(Ljava/lang/Object;)V

! java/lang/System#getSecurityManager()Ljava/lang/SecurityManager;

%'&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)V

objLjava/lang/Object;smLjava/lang/SecurityManager;

implies(Ljava/security/Permission;)Z

equals(Ljava/lang/Object;)Z

hashCode()I

getName()Ljava/lang/String;

getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;

toString();gnu/java/lang/CPStringBuilder;

SourceFilePermission.java!

F

**+[]

XM,.*$nop

q *+

.-012345/6578.95S:Y<+L+(L+*AEIL+ =L+*LIL,*MOQ+ =L+*MIL+)=L+U*

*+7>GNSKWYZ

Java.security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)Z

toString()Ljava/lang/String;

SourceFilePermission.java

16/gnu/javax/sound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1

L.gnu/javax/sound/AudioSecurityManager$Permission;RECORDALLENUM$VALUES2[L.gnu/javax/sound/AudioSecurityManager$Permission;<clinit>

()V

Code

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

LineNumberTableLocalVariableTable

thisvalues40[L.gnu/javax/sound/AudioSecurityManager$Permission;

$&%java/lang/System'(
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/javax/sound/AudioSecurityManager$Permission;
),)-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFile.AudioSecurityManager.java
SignatureCLjava/lang/Enum$Lgnu/javax/sound/AudioSecurityManager$Permission$;:InnerClasses4$gnu/javax/sound/AudioSecurityManager
Permission@1@@@

ejayYYYYSYSYS
G'"*+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;

Open Source Used In Meeting Server 2.8

1805
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:
\" ****************************************************************************
\" Subsection heading
.br
.if t .Sp
.ne 5
.PP
$B$1$F
.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 $I
.. .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\'-.1v\'-1p\'\'-2+\'1p\'+\',0\',1v\',1p\'\'
.ie n \{
  .ds -- \(*W-
  .ds PI pi
  .if \(n,H=4u)(&(1m=24u) .ds -- \(*W\'12u\'(*W\'12u\'\' diablo 10 pitch
  .if \(n,H=4u)(&(1m=20u) .ds -- \(*W\'12u\'(*W\'8u\'\' diablo 12 pitch
  .ds L\" ""
Escape single quotes in literal strings from groff's Unicode transform.

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.

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

Accent mark definitions (/@(#)ms.ace 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.
" simple accents for nroff and troff
.if n \{
  ds ' \&
  ds ` \&
  ds ^ \&
  ds , \&
  ds ~ ~
  ds / 
}.
.if t \{
  ds \" \&
  ds ` \&
  ds ^ \&
  ds , \&
  ds ~ ~
  ds / 
}.
" troff and (daisy-wheel) nroff accents
.ds : \" (\n.wu*8/10-*(#H)'\n.u'
.ds 8 \h'-(\n.wu*8/10-*(#F)'
.ds o \h'-(\n.wu*9/10-*(#H)'~
.ds d- \h~-(\n.wu*9/10-*(#F)'
.ds D- \h~-(\n.wu*9/10-*(#H)'~
.ds th \h~-(\n.wu*9/10-*(#H)'
.ds Th \h~-(\n.wu*9/10-*(#H)'
.ds ae ae
.ds Ae Ae
" corrections for vroff
.if v .ds ~ \h(\n.wu*9/10-*(#H)'~
.if v .ds ~ \h(\n.wu*9/10-*(#H)'~
" for low resolution devices (crt and lpr)
.if \n.(H>23 .if \n.(V>19 \n\}
  ds : e
  ds 8 ss
  ds o a
  ds d- d(\n.ga
  ds D- D(\n.hy
  ds th \h(\n.hy
  ds Th \h(\n.ae
  ds Ae AE
}.
" ========================================================================
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 1
\nh
\SH "NAME"
gpl \- GNU General Public License
\SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.Sh "\$-1GNU\$0 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/>
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\Ve
.Sh "Preamble"
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Sh "TERMS AND CONDITIONS"

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IP "0. Definitions."

IX Item "0. Definitions."
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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_SHORT	\t.word	"t\tword\t"
#define ASM_LONG	\t.long	"t\tlong\t"
#define ASM_QUAD	\t.quad	"t\tquad\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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</para>
<para>
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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:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-@BV@</td>
<td>libgnat-@BV@</td>
<td>gnat-@BV@-doc</td>
</tr>
<tr>
<td>C</td>
<td>gcc-@BV@</td>
<td>libstdc++6</td>
<td>libstdc++6-@BV@-doc</td>
</tr>
<tr>
<td>C++</td>
<td>g++-@BV@</td>
<td>libgfortran3</td>
<td>gfortran-@BV@-doc</td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-@BV@</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>gcj-@BV@</td>
<td>libgcj10</td>
<td>libgcj-doc</td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-@BV@</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-@BV@</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-
independent code in separate packages:
<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++-@BV@-dbg  libstdc++-@BV@-pic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>libgcj10-src libgcj10-dev libgcj10-dbg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, libgomp1GCC 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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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 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 Dossor 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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Developed by:

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/* Definitions for BSD assembler syntax for Intel 386
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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 	.byte	
#define ASM_SHORT 	.word	
#define ASM_LONG 	.long	
#define ASM_QUAD 	.quad	 /* 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, ".space ", HOST_WIDE_INT_PRINT_UNSIGNED"u", (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
", (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
", (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
", (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. */
/* 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+ Ci\v'-.1v\l'-.1p's-2+\h'-.1p'+\s0\v'.1v\h'-.1p'\n.ie n \{
   .ds -- \"(*W-
Escape single quotes in literal strings from groff's Unicode transform.

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'.

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@example
@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 example

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:

@example
@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 example

The hypothetical commands @samp{show w} and @samp{show c} should show
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

#!/usr/bin/python
#
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#
# 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 + '
')
        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',
            'ltsubdir.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'y1wrap',

            # 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+\s+\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 (r'
            ([Cc]opyright'                  # 1: 'Copyright (C)', etc.
            '[Cc]opyright\s+\]'          # '[Cc]opyrights+'
            '[Cc]opyright\s+\%'         # '[Cc]opyrights+
            '[Cc]opyright\s+\&copy;'    # '[Cc]opyrights+\&copy;
            '[Cc]opyright\s+\@copyright{'  # '[Cc]opyrights+@copyright[
            '|'copyright = u\''         # 'copyright = u''
            '\@set\s+copyright[\w-]+)'  # '@set\s+copyright[...]'  # 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].*\n', re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+;+|%=|//=|@c |dnl ')  # HTML header markers, so check for 'copyright' and two digits.

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)'
eelif 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
' % 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
             Options:\n% ' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('\nDirectories:
')
        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):
        pass
GenericFilter.__init__(self)

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

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

    # Handled separately.
    'testsuite',
])

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

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

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

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

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

# 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
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('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')
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 ('gnatools')
        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 ('libcei1')
        self.add_dir ('libc++', 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 xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <title>License</title>
  </head>
  <body>
    <div class="navheader">
      <table width="100%" summary="Navigation header">
        <tr>
          <th colspan="3" align="center">License</th>
        </tr>
        <tr>
          <td width="20%" align="left"><a accesskey="p" href="status.html">Prev</a></td>
          <th width="60%" align="center">Chapter1.Status</th>
          <td width="20%" align="right"><a accesskey="n" href="bugs.html">Next</a></td>
        </tr>
      </table>
    </div>
    <div class="section">
      <div class="titlepage">
        <div><div><h2 class="title" style="clear: both">License</h2></div></div>
      </div>
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    </div>
  </body>
</html>
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Version 1.3, 3 November 2008

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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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2.15 libicu60 60.2-3ubuntu3

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The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

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2.16 liblz4-1 0.0~r131-2ubuntu3

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2.17 liblzma5 5.2.2-1.3
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The implementation of the AES cipher (also known as rijndael) is
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CAMELLIA
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CAST128
The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

DES
The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

MD2
The implementation of MD2 is written by Andrew Kuchling, and hacked some by Andreas Sigfridsson and Niels Mller. Python Cryptography Toolkit license (essentially public domain).

MD4
This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

MD5
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SHA224, SHA256, SHA384, and SHA512
Written by Niels Mller, using Peter Gutmann's SHA1 code as a model. Released under the LGPL.

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2.20 libstdc++6 8.2.0

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# These lines make the symbols to get a @@GCC_4.6.0.

%exclude {
   __addtf3
   __copysigntf3
   __divtc3
   __divtf3
   __eqtf2
   __extenddftf2
   __extendsftf2
   __extendxftf2
   __fabstf2
   __fixtfdi
   __fixtfsi
   __fixtfi
   __fixunstfdi
   __fixunstfsi
   __fixunstfni
   __floatditf
   __floatsftf
   __floatitf
   __floatunditf
   __floatunsitf
}
GCC_4.6.0 {
__addtf3
%ifndef __x86_64__
__copysigntf3
%endif
__divtc3
__divtf3
__eqtf2
__exttf2
__extsdf2
__extxft2
%ifndef __x86_64__
__fabsft2
%endif
__fixtfdi
__fixtsi
%ifdef __x86_64__
__fixtfti
%endif
__fixunstfdi
__fixunstfsi
%ifdef __x86_64__
__fixunstfti
%endif
__floatdif
__floatsitf
%ifdef __x86_64__
__floattitf
%endif
__floatunditf
__floatunsitf
%ifdef __x86_64__
  __floatun nitf
%endif
__getf2
__gt tf2
__letf2
__ltf2
__multc3
__multf3
__neg f2
__netf2
__powitf2
__sub tf3
__trunctfdf2
__trunct fsf2
__trunctxf2
__unordtf2
}

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Version 3.1, 31 March 2009

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

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

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

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

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

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

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

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

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

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

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

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

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

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or
translated straightforwardly into another language. (Hereinafter,
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

a. The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

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modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

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

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#!/usr/bin/python
#
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# so that they have the form:
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#
# 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.
```

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

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

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

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

        self.skip_files |= set(['COPYING', 'COPYING.LIB',
```

```python
```
'COPYING3',
'COPYING3.LIB',
'LICENSE',
'dl.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',
'deptools',
'install-sh',
'libtool.m4',
'ltmain.sh',
'loptions.m4',
'lttools.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]+and+[\-0-9.,\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 + '|\d+')

# Matches a full copyright notice:
self.copyright_re = re.compile ('(\[Cc\]opyright' +
    '|' + ranges + '[Cc]\)\]' +
    '|' + ranges + '[Cc]\%s' +
    '|' + ranges + '@copy\)' +
    '|' + ranges + '@copyright\]' +
    '|copyright = u'' +
    '|@set +copyright\[w-\]+')

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*(?:' + ranges + ',? + 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).
  '(\s+' + 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(r'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

                return (line != orig_line, line, next_line)
# Check for copyright lines that might have slipped by.
if 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
' % 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)
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...

    Options:
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

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

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

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

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

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

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_files = set(['math-68881.h',])
        self.skip_dirs = set(['ada',
                              'testsuite',])
self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

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

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

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

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

        # 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([
            # g++.niklas/README contains historical copyright information
            # and isn't updated.
            # Similar ly params/README.
            # 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 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):
        pass
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.')
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('gnavtools')
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('libccc1')
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('libv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libccc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    #...}
GCCCmdLine().main()

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the 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
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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<th>Directory</th>
</tr>
</thead>
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<td>lib/interception/mach_override</td>
</tr>
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<td></td>
</tr>
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<tr>
<td>Copyright @copyright{} 2007 Free Software Foundation, Inc.</td>
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@end enumerate

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@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:

@end 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
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program's commands might be different; for a GUI interface, you would
use an ``about box''.

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the GNU Lesser General Public License instead of this License.  But
first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@end c man end

\v Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
\v
\v Standard preamble:
\v ==============

Open Source Used In Meeting Server 2.8
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<>. 

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\" Avoid warning from groff about undefined register 'F'.
.de IX
.. .if ![nF .nr F 0
 .if ![nF>0 \{\n    de IX
    tm Index:\$1\t\n%	"\$2"
.. .if ![nF==2 \{\n    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 \{\n   . ds #H 0
   . ds #V .8m
   . ds #F .3m
   . ds #[ \f1
   . ds #] \fP
 .\}
 .. .if t \{\n   . ds #H ((1-u-(\\n(.fu%2u))*.13m)
   . ds #V .6m
   . ds #F 0
   . ds #[ \&
   . ds #] \&
 .\}
 .\" simple accents for nroff and troff
.. .if n \{\n   . ds ' \&
   . ds ` \&
   . ds ^ \&
   . ds , \&
   . ds , ~ ~
   . ds / \}
.. .if t \{\n   . ds ' k:\h-'-(\\n(.wu*8/10-\*(#H)\vh")\n:u"'
   . ds ` k:\h-'-(\\n(.wu*8/10-\*(#H)\vh")\n:u"'
   . ds ^ k:\h-'-(\\n(.wu*10/11-\*(#H)\vh")\n:u"'
   . ds , k:\h-'-(\\n(.wu*8/10)\vh")\n:u"'
   . ds , k:\h-'-(\\n(.wu-\*(#H-.1m)\vh")\n:u"'
   . ds / k:\h'-(\\n(.wu*8/10-\*(#H)\vh")\n:u"'
  \}
Open Source Used In Meeting Server 2.8

\l
. V' troff and (daisy-wheel) nroff accents
.ds : \k:\h'-(\n(wu*8/10-\*(-#H+.1m+\*(-#F)'w'*(#V'z.h'.2m+\*(-#F'.h')\n.u'w'*#V'\n.s 8 \h'*(#H'\b'h'*(#H'
.ds o \k:\h'-(\n(wu+w+(de'u-\*(-#H)/2u'w-.3n\%(#l\n\(de\v'\.3n\h')\n.u'\n.s d- \h'*(#H')(pd\h'-'w''-'u'w''-.25m\%2(h)'w'25m\h'*(#H'
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.ds th\v'(#w'.3m\%'s+1ps-1w'-.3m\h'-(w'tu*2/3)s-1o's+1\%(#)
.ds Th \v'(#s+2-2d'-'w'tu*3/5'w'-.3m'o'w'.3m\*(#)
.ds ae a\h'-(w'a'u*4/10)'e
.ds Ae A\h'-(w'A'u*4/10)'E
. V' corrections for vroff
.if v .ds ~ \k:\h'-(\n(wu*9/10-\*(-#H)s-2u'-'d'\s+2\h')\n.u'
.if v .ds v \k:\h'-(\n(wu*10/11-\*(-#H)'w'-.4m\%\v'.4m\h')\n.u'
. V' for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \\
|}
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 . ds 8 ss
 . ds o a
 . ds d- d'h'-1\v'(ga
 . ds D- D'h'-1\v'(hy
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|}
.rm #[ #] #H #V #F C
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.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
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\l" way too many mistakes in technical documents.
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\& Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
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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, \".byte\t\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)))

#ifndef 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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2.26 zlib1g 1:1.2.11.dfsg-0ubuntu2
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```c
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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.csiuuc.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@mtniame.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 (bde@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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]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [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">
<html>
<head>
<title>Boost Licence Dependency Information</title>
</head>
<body>
<H1>Boost Licence Dependency Information</h1>
<H2>Contents</h2>

"/h2>
"/h1>
"<pre><a href="#input">Input Information</a></pre>

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

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

os << "<a href="#files">Files with no recognised license</a>
    "<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
    os <<
    "Moving to the Boost Software License...
    "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
    "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
    "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
    "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
    "<a href="#copyright">Copyright Holder Information</a>
}

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

// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>
else
    os << "<P>The following Boost modules were checked:<BR>
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}
    os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous version):

fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define[[:blank:]]*BOOST_VERSION[[:blank:]]*\(\d+\)\); boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100
        << "</P>\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>
    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>";
        ++i;
    }
    // and now the details:
    i = m_license_data.begin();
j = m_license_data.end();
    int license_index = 0;
    os << "<a name="details"></a><h2>Licence Details</h2>
    while(i != j)
// title:
    os <<
        "<H3><A name="" << make_link_target(licenses.first[i->first].license_name)
        "">" << 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 << "This license is used by the following " << i->second.authors.size() << " copyright
        holders:"
        << m_bsl_summary_mode || (license_index >= 3))
        {
            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 << "This license applies to the following " << i->second.files.size() << " files:
            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 << "This license is used by " << i->second.authors.size() << " authors (list omitted for brevity)."
            os << "This license applies to " << i->second.files.size() << " files (list omitted for brevity)."
            license_index;
            ++i;
        }
    }
    // Output list of files not found to be under license control:
    //
    os << "Files With No Recognisable Licence\n"
    "The following " << m_unknown_licenses.size() << " files had no recognisable license
    information:" << m_bsl_summary_mode || (license_index >= 3))
    {
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\n\n<i><tt>" << i->second.first << "</i></tt><\n\n\n<i>" << i->second.second << "</i></tt><\n\n\n++i;
\n\n\n";
// Output list of files that could be moved over to the Boost Software License
os << "<h2><a name="to-bsl"></a>\nFiles that could be converted to the Boost Software License</h2>
""<P>The following " " files could be manually converted to the Boost Software License, but have not yet been:
<P><BLOCKQUOTE><P>;}
++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>\nFiles that can NOT be converted to the Boost Software License</h2>
""<P>The following " " files cannot be converted to the Boost Software License because we need the permission of more authors:
<P><BLOCKQUOTE><P>;}
++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>\nAuthors we need for the BSL</h2>
""<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.
<P><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>\nCopyright 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><td"></td>
    ++ad;
}
os << "</table>

//
// output file dependency information:
//
os << "<H2><a name="depend">File Dependency Information</a></H2><BLOCKQUOTE><pre>
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)


```cpp
{
    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";
}
```

```
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 1977,1985 Someone else]
]
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

Copyright:

\+/\n+\)Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
\+/\n
This is Release 2.4 of Jam/MR, a make-like program.

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (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(agec@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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--- end ---

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<html>
<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 1. Boost.TypeTraits">
<link rel="up" href="../../../../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.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">
<table cellpadding="2" width="100%"><tr>
<td valign="top"><img alt="Boost C++ Libraries" width="277" height="86" src="../../../../boost.png"></td>
<td align="center"><a href="../../../../index.html">Home</a></td>
<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>
<div class="spirit-nav">
<a accesskey="p" href="intrinsics.html"><img src="../../../../doc/src/images/prev.png" alt="Prev"></a><a accesskey="u" href="../../../../index.html"><img src="../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="h" href="../../../../index.html"><img src="../../../../doc/src/images/home.png" alt="Home"></a><a accesskey="n" href="examples.html"><img src="../../../../doc/src/images/next.png" alt="Next"></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>


Interoperability
</h2>
<p>
All the value based traits in this library conform to MPL’s requirements for
an &lt;a href="../../../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
Constant type</a>.
</p>
<p>
Please note that these types no longer inherit from &lt;code class="computeroutput"><span
class="identifier">mpl</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;/span&gt;&lt;span class="identifier">true_</span>&lt;/span&gt;&lt;/code&gt; or
&lt;code class="computeroutput"><span class="identifier">mpl</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;/span&gt;&lt;span class="identifier">false_</span>&lt;/span&gt;&lt;/code&gt; etc, and the library will no longer
implicitly include any MPL header. However there is an implicit conversion
from &lt;code class="computeroutput"><span class="identifier">integral_constant</span>&lt;/code&gt; to the
 corresponding MPL types, therefore tag-dispatching that uses MPL types in function
 overloads will still work as before.
</p>
</table>
All the value based traits in this library conform to MPL’s requirements for an [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.
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)\
    typedef 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));\
    };

#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); \
}; \
} //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

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); \
}; \
} //namespace intrusive
} //namespace boost

#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))); \
} \
} //namespace intrusive
} //namespace boost

#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) \
} //namespace intrusive
} //namespace boost

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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('	')
        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*)\((c)\)?\scopyright\((c)\)?\sd\{4\}(\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)

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<imagedata align="left"
format="GIF"
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</ulink>--> 
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//
//
//////////////////////////////////////////////////////////////////////////////

#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/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;

    } // namespace dtl
  } // namespace container
} // namespace boost

#include <boost/container/detail/config_end.hpp>
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);  }
};

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

#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
//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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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`. 

```cpp
#include <boost/mp11/push_back.hpp>
#include <boost/mp11/vector.hpp>

template <int i>
struct t {};

using vector = %= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>=;

int main() { }
```

```cpp
#include <boost/mp11/fold.hpp>
#include <boost/mp11/push_back.hpp>
#include <boost/mp11/quote.hpp>
#include <boost/mp11/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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#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 {

#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

#ifdef  //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
3.4 libbsd0 0.8.7-1

3.4.1 Available under license:

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

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*

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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
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man/heapsort.3bsd
man/nlist.3bsd
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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
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3.8 libgpg-error01 1.27-6

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

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

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

These requirements apply to the modified work as a whole. If 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
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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Preamble
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Version 2, June 1991

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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.

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

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

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

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

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Written By David Vinayak Henkel-Wallace, June 1992

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#!/usr/bin/python
#
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#
# 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 + '
')
        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',
'ltsgnur.m4',
'ltversion.m4',
'lt--obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'y1wrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appenix_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]*[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 + '|'.join ([name]))

        # Matches a full copyright notice:
        self.copyright_re = re.compile (self.year_re + self.continuation_re + self.year_re)
# 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).
'(\s*(' + 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.
sel.use_quilt = False

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

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

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

def add_external_author (self, holder):
  sel.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)
    return year

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
    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
' % 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...

        ' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)
for (what, help) in self.option_help:
    sys.stdout.write(format % (what, help))
sys.stdout.write('
Directories:
')
format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
i += 1
    if i % 3 == 0 or i == len(self.dirs):
sys.stdout.write(dir + '
')
else:
sys.stdout.write(format % dir)
sys.exit(0)

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

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

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

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

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

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

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

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

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

            # Handled separately.
            'testsuite',
        })

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

            # Automatically-generated.
            '.pot',
        })

        self.fossilised_files |= set ({
            # Old news won't be updated.
            'ONEWS',
        })

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

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

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

Open Source Used In Meeting Server 2.8
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 test suite 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 ('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.')
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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 (os.path.join ('libcpp', 'LibCppFilter()')
        self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
# libgmp 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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Version 2.1, February 1999

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<td>lib/interception/mach_override</td>
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@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@example
@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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@end man
\% 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'-1p\v'1p\v'1p\v'-1p\v'-2p\v'1p\v'1p\v'1p\v'-1p\v'1p
\ie n \%
  . ds -- \%(W-
  . ds PI pi
  . if (\(u.H=4u)&(1m=24u) .ds -- \%(W'h'-12u\%(W'h'-12u\%(W
  . if (\(u.H=4u)&(1m=20u) .ds -- \%(W'h'-12u\%(W'h'-8u\%(W
  . ds L" "
  . ds R" "
  . ds C" "
  . ds C" "
'br\}
\el\{
  . ds -- \%(em\%
  . ds PI \%(p
  . ds L" "
  . ds R" "
  . ds C'
  . ds C'
'br\}
\}
\A
\A Escape single quotes in literal strings from groff's Unicode transform.
\ie \n, .ds Aq \%(aq
\el .ds Aq \%
\A
\A If the F register is >0, we'll generate index entries on stderr for
\A titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
\A entries marked with X<> in POD. Of course, you'll have to process the
\A output yourself in some meaningful fashion.
\A
\A 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 \%

" 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 #f \f1
    ds #fP

.if t |
    ds #H ((1-u-(\n(wu*%2u))*.13m)
    ds #V .6m
    ds #F 0
    ds #f \&
    ds #f \&
    " simple accents for nroff and troff
.if n |
    ds ' \&
    ds ` \&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds /

.if t |
    ds ' \&
    ds ` \&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds /

    " troff and (daisy-wheel) nroff accents
.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*8/10-*)(#H)\h'\n:u'
.ds , \k:h'-/(\n(wu*8/10)'\h'\n:u'
.ds ~ ~ \k:h'-/(\n(wu*8/10-*)(#H)'\h'\n:u'
.ds / \k:h'-/(\n(wu*8/10-*)(#H)'\h'\n:u'

Th 

ae a/"
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. IX Item "a."

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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\"un\", (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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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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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 + '
')
        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',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symmlink-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

    return False

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

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

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

    return False

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

class Copyright:
    def __init__(self, errors):
        self.errors = errors
# Characters in a range of years. Include '.' for typos.
ranges = '[0-9][?][0-9.,\s]+[0-9]*'  

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

# 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]opyrights+([Cc])v'  
    |[Cc]opyrights+%'s'  
    |([Cc]opyrights+&copy;'  
    |([Cc]opyrights+@copyright[]}  
    |copyright = u"'  
    |[@set+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('('):
    intro = intro[:-1] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '
'

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
    return

    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    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
' % 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
    Options:\n    %s

    Options:\n    %s

    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)
        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',
        )

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)
# Handled separately.
'testsuite',
[])

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

    # Automatically-generated.
    '.pot',
    []
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
    []
])

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

    self.skip_extensions |= set([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.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':
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.')
        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',
    'libgcc',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin']
'libgfortran',
'libgomp',
'libhsail-rt',
'libiberty',
'libitm',
'libobjc',
'libssp',
'libstdc++-v3',
'libvtv',
'lto-plugin',
]

GCCCmdLine().main()
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<table>
<thead>
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<td>lib/interception/mach_override</td>
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<tr>
<td>@ignore</td>
<td></td>
</tr>
<tr>
<td>@c Set file name and title for man page.</td>
<td></td>
</tr>
<tr>
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<tr>
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<td></td>
</tr>
<tr>
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<td></td>
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<tr>
<td>gfdl(7), fsf-funding(7).</td>
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</tr>
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<td></td>
</tr>
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<td>@c man begin COPYRIGHT</td>
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</tr>
<tr>
<td>Copyright @copyright{} 2007 Free Software Foundation, Inc.</td>
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</tbody>
</table>

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@enumerate 0

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@item
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6b.

@item
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Corresponding Source in the same way through the same place at no
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the object code is a network server, the Corresponding Source may be
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@item
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@end enumerate

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---

Open Source Used In Meeting Server 2.8
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 (\nrF:\n(g==0)) \{
    if \nF \{
        de IX
        tm Index:\$1\n\$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 ((1-u-(\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 /
.A]
  .if t {
  . ds ' \k:h\-
  . ds ' \k:h\-
  . ds ' \k:h\-
  . ds ' \k:h\-
  . ds ' \k:h\-
  . ds ' \k:h\-
  . ds ' \k:h\-
  . ds ' \k:h\-
  . ds / \k:h\-
  .}
  " troff and (daisy-wheel) nroff accents
  .ds : \k: h'-(\n(.wu*8/10-%(#H)%h\-
  .ds o \k:h\-
  .ds d- \k:h\-
  .ds D- D\k:h\-
  .ds th \o'bp'
  .ds Th \o'LP'
  .ds ae a\h'-(\w'a'u*4/10/e
  .ds Ae A\h'-(w'A'u*4/10/E
  . V' corrections for vroff
  .if v .ds ~ \k:h\-
  .if v .ds ^ \k:h\-
  .if n .ad l
  .nh
.SH "NAME"
  gpl \- GNU General Public License
.SH "DESCRIPTION"
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Version 3, 29 June 2007

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PP

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"1. Source Code." 4

IX Item "1. Source Code."
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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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/* 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 %u\n”, (int)(ROUNDED))

/* 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
", (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
", (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
", (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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Version 3.1, 31 March 2009

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4.1 @momentum-ui/core 18.2.0

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4.3 Axios 0.19.0

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4.4 detect-browser 4.7.0

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4.5 event-emitter 0.3.5
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4.7 lodash 4.17.15

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4.8 normalize.css 8.0.1

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4.9 path-to-regexp 3.0.0

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4.10 react 16.9.0

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4.11 react-dom 16.9.0

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4.12 react-inlinesvg 1.1.6

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4.13 react-redux 7.1.0

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4.14 redux 4.0.4

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4.15 reselect 4.0.0

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4.16 webrtc-adapter 7.2.4

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