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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.
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Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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1.4 bridge-utils 1.5

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.6 bzip2 1.0.6

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jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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libbz2.dll test program.
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/

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1.7 cairo 1.14.2

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1.13 db 4.4.20

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1.18 e2fsprogs 1.43.7

1.18.1 Available under license :

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

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

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

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Theodore Ts'o
23-June-2007

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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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
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Gadi Oxman, August 1995

---------------------------------------------------------------------------

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<signature of Ty Coon>, 1 April 1989
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSDLIB_LIB)

$(BSDLIB_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS_SHELIBM) $(OBJS))
$(MV) pic/$(BSDLIB_LIB)

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

install-shlibs-strip: install-shlibs

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

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

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*/

Index: tdbsa/tdb.c

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

- trivial database library - private includes
- 
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1.19 ethtool 3.2
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- 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`
  - `libsresample/swresample-test.c`
  - `tests/checkasm/*`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `f_ebur128.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
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* `tests/reference.pnm` is under the expat license.

## External libraries

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### 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.

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### Incompatible libraries

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*/
/*
*/
/* ftgzip.c */
/*
*/
/* FreeType support for .gz compressed files. */
/*
*/
/* This optional component relies on zlib. It should mainly be used to */
/* parse compressed PCF fonts, as found with many X11 server */
/* distributions. */
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/*
*/
/* zlib.h -- interface of the 'zlib' general purpose compression library */
/* version 1.1.4, March 11th, 2002 */

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

scriptversion=2003-09-24.23

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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:b15539851b751df00f7a3527c5e81360

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

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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 wrjpcom.
*.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 Unix configuration script "configure" was produced with GNU Autoconf.
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The same holds for its supporting scripts (config.guess, config.sub,
ltnain.sh). Another support script, install-sh, is copyright by X Consortium
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The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
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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.ijs.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology. If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The 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 "zip" archive format as http://www.ijg.org/files/jpegsr8d.zip.


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ACKNOWLEDGMENTS

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.
Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the
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Thank to Thomas Wiegand and Gary Sullivan for inviting me to the
Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

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)
meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to
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Thank to Nico Zschach and Dirk Stelling of the technical support team
at the Digital Images company in Halle for providing me with extra
equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful
communication about JPEG configuration in Sigma Photo Pro software.

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
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.

### 1.39 jq 1.4

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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 pythonic interface. Copyright (C) 2013 by UNINETT Norid AS

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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.

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

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-------------------------------------------------------------------------

1.47 libcURL 7.55.1

1.47.1 Available under license:

License Mixing

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

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) 
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particular problem was addressed when the [Modified BSD 
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not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is 
very liberal.
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### 1.48 libdrm 1.3.0 :1.1

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1.51 libiconv 1.14
1.51.1 Available under license:

GNU LIBICONV - character set conversion library

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

It provides support for the encodings:

European languages
- ASCII, ISO-8859-{1,2,3,4,5,7,9,10,13,14,15,16},
- KOI8-R, KOI8-U, KOI8-RU,
- CP{1250,1251,1252,1253,1254,1257}, CP{850,866,1131},
- Mac{Roman,CentralEurope,Iceland,Croatian,Romania},
- Mac{Cyrillic,Ukraine,Greek,Turkish},
- Macintosh
- Semitic languages
ISO-8859-{6,8}, CP{1255,1256}, CP862, Mac{Hebrew,Arabic}
Japanese
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 autotools, append m4/iconv.m4 to your aclocal.m4 file.
- If you do use autotools, 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 autotools, 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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http://www.gnu.org/software/libiconv/

Bug reports to
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<bug-gnu-libiconv@gnu.org>

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1.55 libpng_gregbook 1.6.23
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1.59 linux 3.10.10

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*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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{
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    || strcmp(license, "GPL v2") == 0
    || strcmp(license, "GPL and additional rights") == 0
    || strcmp(license, "Dual BSD/GPL") == 0
    || strcmp(license, "Dual MIT/GPL") == 0
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}
#endif
```

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for the nxt2004 frontend driver

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

(If you think you should be in this list, but you are not, drop a
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/* 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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/* 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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{
  return (strcmp(license, "GPL") == 0
          || strcmp(license, "GPL v2") == 0
          || strcmp(license, "GPL and additional rights") == 0
          || strcmp(license, "Dual BSD/GPL") == 0
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}
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/* 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_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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/

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[This is the first released version of the library GPL. It is
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
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* 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
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*   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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            || strcmp(license, "GPL v2") == 0
            || 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 libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.65 lsof 4.85
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 */

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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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*/
#endif

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

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1.66 lua 5.1.4
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1.67 luafilesystem 1.5.0

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1.68 lualdap 1.1.0

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1.70 luuuid 1.0

1.71 lvm2 2.02.79

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Corresponding Source. Regardless of what server hosts the
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/* GNU m4 -- A simple macro processor


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*/

/* Code for all built-in macros, initialization of symbol table, and...*/
expansion of user defined macros. */

#include "m4.h"

#include "execute.h"
#include "memchr2.h"
#include "regex.h"
#include "spawn-pipe.h"
#include "wait-process.h"

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

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

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

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

#undef DECLARE

static builtin const builtin_tab[] =
{
    { "__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 },
#ifdefined 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,  false,  m4_m4exit },
{ "m4wrap",           false,  false,  true,   m4_m4wrap },
{ "maketemp",         false,  false,  true,   m4_maketemp },
{ "mkstemp",          false,  false,  true,   m4_mkstemp },
{ "patsubst",         true,   false,  true,   m4_patsubst },
{ "popdef",           false,  false,  true,   m4_popdef },
{ "pushdef",          false,  true,   true,   m4_pushdef },
{ "regexp",           true,   false,  true,   m4_regexp },
{ "shift",            false,  false,  true,   m4_shift },
{ "sinclude",         false,  false,  true,   m4_sinclude },
{ "substr",           false,  false,  true,   m4_substr },
{ "syscmd",           false,  false,  true,   m4_syscmd },
{ "sysval",           false,  false,  false,  m4_sysval },
{ "traceoff",         false,  false,  false,  m4_traceoff },
{ "traceon",          false,  false,  false,  m4_traceon },
{ "translit",         false,  false,  true,   m4_translit },
{ "undefine",         false,  false,  true,   m4_undefine },
{ "undivert",         false,  false,  true,   m4_undivert },
{ 0,                  false,  false,  false,  0 },

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

static predefined const predefined_tab[] =
{
#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

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;
}

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;
}

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

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

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

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

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

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

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

    /*----------------------------------------. |
    | Install a builtin macro with name NAME, bound to the C function |`----------------------------------------*/

    void
define_builtin (const char *name, const builtin *bp, symbol_lookup mode)
    {
        symbol *sym;
sym = lookup_symbol (name, mode);
SYMBOL_TYPE (sym) = TOKEN_FUNC;
SYMBOL_MACRO_ARGS (sym) = bp->groks_macro_args;
SYMBOL_BLIND_NO_ARGS (sym) = bp->blind_if_no_args;
SYMBOL_FUNC (sym) = bp->func;
}

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

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

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

/* ......................................................
| Clean up regular expression variables. |
`----------------------------------------*/
static void free_pattern_buffer (struct re_pattern_buffer *buf, struct re_registers *regs)
{
  regfree (buf);
  free (regs->start);
  free (regs->end);
}

/*------------------------------------------------------------------
| Set the regular expression of --warn-macro-sequence that will be |
| checked during define and pushdef. Exit on failure.             |
`------------------------------------------------------------------*/
void set_macro_sequence (const char *regexp)
{
  const char *msg;

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

  msg = re_compile_pattern (regexp, strlen (regexp), &macro_sequence_buf);
  if (msg != NULL)
M4ERROR ((EXIT_FAILURE, 0,
"--warn-macro-sequence: bad regular expression `\%s\': `\%s",
regexp, msg));
}

re_set_registers (&macro_sequence_buf, &macro_sequence_regs,
macro_sequence_regs.num_regs,
macro_sequence_regs.start, macro_sequence_regs.end);
macro_sequence_inuse = true;
}

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

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

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

void
define_user_macro (const char *name, const char *text, symbol_lookup mode)
{
    symbol *s;
    char *defn = xstrdup (text ? text : "");
    s = lookup_symbol (name, mode);
    if (SYMBOL_TYPE (s) == TOKEN_TEXT)
        free (SYMBOL_TEXT (s));
    SYMBOL_TYPE (s) = TOKEN_TEXT;
    SYMBOL_TEXT (s) = defn;

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

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

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

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

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

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

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

    return isbad;
}

/*------------------------------------------------------------------
| The function numeric_arg () converts ARG to an int pointed to by |
| VALUEP. If the conversion fails, print error message for macro  |
| MACRO. Return true iff conversion succeeds.                    |
`----------------------------------------------------------------------*/
static bool
numeric_arg (token_data *macro, const char *arg, int *valuep)
{
char *endp;

if (*arg == '\0')
{
    *valuep = 0;
    M4ERROR ((warning_status, 0,
       "empty string treated as 0 in builtin "TOKENDATA_TEXT(macro)",
    )
}
else
{
    errno = 0;
    *valuep = strtol (arg, &endp, 10);
    if (*endp != '\0')
    {
        M4ERROR ((warning_status, 0,
           "non-numeric argument to builtin "TOKENDATA_TEXT(macro)",
        )
    return false;
    }
    if (isspace (to_uchar (*arg)))
    M4ERROR ((warning_status, 0,
       "leading whitespace ignored in builtin "TOKENDATA_TEXT(macro)",
    )
else if (errno == ERANGE)
    M4ERROR ((warning_status, 0,
       "numeric overflow detected in builtin "TOKENDATA_TEXT(macro)",
    )
    return true;
}

.getOrElse(
*/
<p>| The function ntoa () converts VALUE to a signed ASCII |</p>
<table>
<thead>
<tr>
<th>representation in radix RADIX.</th>
</tr>
</thead>
</table>
/*/  

/* 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
| into the symbol table.
|............................................................................*/

static void
define_macro (int argc, token_data **argv, symbol_lookup mode)
{
const builtin *bp;

if (bad_argc (argv[0], argc, 2, 3))
    return;
if (TOKEN_DATA_TYPE (argv[1]) != TOKEN_TEXT)
{
    M4ERROR ((warning_status, 0,
            "Warning: %s: invalid macro name ignored", ARG (0)));
    return;
}

if (argc == 2)
{
    define_user_macro (ARG (1), "", mode);
    return;
}

switch (TOKEN_DATA_TYPE (argv[2]))
{
    case TOKEN_TEXT:
        define_user_macro (ARG (1), ARG (2), mode);
        break;
    
    case TOKEN_FUNC:
        bp = find_builtin_by_addr (TOKEN_DATA_FUNC (argv[2]));
        if (bp == NULL)
            return;
        else
            define_builtin (ARG (1), bp, mode);
        break;
    
    case TOKEN_VOID:
        default:
            M4ERROR ((warning_status, 0,
            "INTERNAL ERROR: bad token data type in define_macro ()"));
            abort ();
    }
}

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

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

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

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

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

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

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

if (s != NULL && SYMBOL_TYPE (s) != TOKEN_VOID)
    result = ARG (2);
else if (argc >= 4)
    result = ARG (3);
else
    result = NULL;
if (result != NULL)
    obstack_grow (obs, result, strlen (result));
}

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

if (argc == 2)
    return;

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

argv++;  
argc--;

result = NULL;
while (result == NULL)

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

else
    switch (argc)
    {
    case 3:
        return;

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

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

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

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

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

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

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

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

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

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

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

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

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

obstack_finish (obs);

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

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

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

        case TOKEN_FUNC:
            bp = find_builtin_by_addr (SYMBOL_FUNC (data.base[0]));
            if (bp == NULL)
                M4ERROR ((warning_status, 0, "\nINTERNAL ERROR: builtin not found in builtin table");
            abort ();
            break;

        case TOKEN_VOID:
            break;

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

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

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

  if (bad_argc (argv[0], argc, 2, -1))
    return;
  if (TOKEN_DATA_TYPE (argv[1]) != TOKEN_TEXT)
  {
    M4ERROR ((warning_status, 0,
      "Warning: %s: invalid macro name ignored", ARG (0)));
    return;
  }
  name = ARG (1);
  bp = find_builtin_by_name (name);
  if (bp->func == m4_placeholder)
    M4ERROR ((warning_status, 0,
      "undefined builtin `%s'", name));
  else
  {
    int i;
    if (! bp->groks_macro_args)
      for (i = 2; i < argc; i++)
        if (TOKEN_DATA_TYPE (argv[i]) != TOKEN_TEXT)
          {
            TOKEN_DATA_TYPE (argv[i]) = TOKEN_TEXT;
            TOKEN_DATA_TEXT (argv[i]) = (char *) "";
          }
    bp->func (obs, argc - 1, argv + 1);
  }
}
/*………………………………………………………………………………………………………………*/
| The builtin "indir" allows indirect calls to macros, even if their name is not a proper macro name. It is thus possible to define macros with ill-formed names for internal use in larger macro packages. This macro is not available in compatibility mode. `-------------------------------------------------------------------*/

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

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

    /*………………………………………………………………………………………………………………*/
    | The macro "defn" returns the quoted definition of the macro named by the first argument. If the macro is builtin, it will push a special macro-definition token on the input stack. `-------------------------------------------------------------------*/
static void
m4_defn (struct obstack *obs, int argc, token_data **argv)
{
    symbol *s;
    builtin_func *b;
    unsigned int i;

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

    assert (0 < argc && argc <= INT_MAX);
    for (i = 1; i < (unsigned) argc; i++)
    {
        const char *arg = ARG((int) i);
        s = lookup_symbol (arg, SYMBOL_LOOKUP);
        if (s == NULL)
            continue;
        switch (SYMBOL_TYPE (s))
        {
            case TOKEN_TEXT:
                obstack_grow (obs, lquote.string, lquote.length);
                obstack_grow (obs, SYMBOL_TEXT (s), strlen (SYMBOL_TEXT (s)));
                obstack_grow (obs, rquote.string, rquote.length);
                break;

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

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

            default:
                M4ERROR ((warning_status, 0, "INTERNAL ERROR: bad symbol type in m4_defn ()"));
                abort (0);
        }
    }
/* 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, 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,allback true false 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 (feof(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. */

/*--------------------------------------------------------------.
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
    {
        fp = m4_path_search (ARG (i), NULL);
        if (fp != NULL)
            {
                insert_file (fp);
                if (fclose (fp) == EOF)
                    M4ERROR ((warning_status, errno,
                              "error undiverting `\%s'", ARG (i)));
            }
        else
            M4ERROR ((warning_status, errno,
                      "cannot undivert `\%s'", ARG (i)));
    }
}

/* This section contains various macros, which does not fall into any
   specific group. These are "dnl", "shift", "changequote", "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);
}

#ifndef ENABLE_CHANGEWORD

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

static void
m4changeword (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
if (bad_argc (argv[0], argc, 2, 2))
    return;

set_word_regexp (TOKEN_DATA_TEXT (argv[1]));
}
#endif /* ENABLE_CHANGEWORD */

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

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

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

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

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

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

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

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

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

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

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

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

/* Add trailing 'X' to PATTERN of length LEN as necessary, then securely create the file, and place the quoted new file name on OBS. Report errors on behalf of ME. */

static void
mkstemp_helper (struct obstack *obs, const char *me, const char *pattern, size_t len)
{
    int fd;
    size_t i;
    char *name;

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

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

static void
m4_maketemp (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 2, 2))
        return;
    if (no_gnu_extensions)
    {
        /* POSIX states "any trailing 'X' characters [are] replaced with
           the current process ID as a string", without referencing the
           file system. Horribly insecure, but we have to do it when we
           are in traditional mode.

           For reference, Solaris m4 does:
           maketemp() -> `
           maketemp(X) -> `X'
           maketemp(XX) -> `Xn', where n is last digit of pid
           maketemp(XXXXXXXX) -> `X00nnnnn', where nnnnn is 16-bit pid
           */
        const char *str = ARG (1);
        int len = strlen (str);
        int i;
        int len2;

        M4ERROR ((warning_status, 0, "recommend using mkstemp instead");
        for (i = len; i > 1; i--)
            if (str[i - 1] != 'X')
                break;
        obstack_grow (obs, str, i);
        str = ntoa ((int32_t) getpid (), 10);
        len2 = strlen (str);
        if (len2 > len - i)
            obstack_grow0 (obs, str + len2 - (len - i), len - i);
        else
            {  
                while (i++ < len - len2)
                    obstack_1grow (obs, '0');
            }
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)));
}

static void m4___file__ (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 1, 1))
        return;
    obstack_grow (obs, lquote.string, lquote.length);
    obstack_grow (obs, current_file, strlen (current_file));
    obstack_grow (obs, rquote.string, rquote.length);
}

static void m4___line__ (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 1, 1))
        return;
    shipout_int (obs, current_line);
}
static void
m4___program__ (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 1, 1))
        return;
    obstack_grow (obs, lquote.string, lquote.length);
    obstack_grow (obs, program_name, strlen (program_name));
    obstack_grow (obs, rquote.string, rquote.length);
}

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

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

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

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

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

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

/* Enable tracing of all specified macros, or all, if none is specified. Tracing is disabled by default, when a macro is defined. This can be overridden by the "t" debug flag. */

/* -----------------------------------------------------------------------------
 | Set_trace () is used by "traceon" and "traceoff" to enable and disable tracing of a macro. It disables tracing if DATA is NULL, otherwise it enables tracing. 
 | *-----------------------------------------------------------------------------

static void
set_trace (symbol *sym, void *data)
{
    SYMBOL_TRACED (sym) = data != NULL;
/* Remove placeholder from table if macro is undefined and untraced. */
if (SYMBOL_TYPE (sym) == TOKEN_VOID && data == NULL)
    lookup_symbol (SYMBOL_NAME (sym), SYMBOL_POPDEF);
}

static void
m4_traceon (struct obstack *obs, int argc, token_data **argv)
{
    symbol *s;
    int i;

    if (argc == 1)
        hack_all_symbols (set_trace, obs);
    else
        for (i = 1; i < argc; i++)
            {
```
s = lookup_symbol (ARG (i), SYMBOL_LOOKUP);
if (!s)
    s = lookup_symbol (ARG (i), SYMBOL_INSERT);
set_trace (s, obs);
}
}

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

static void
m4_traceoff (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    symbol *s;
    int i;

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

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

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

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

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

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

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

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

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

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

static void
m4_debugfile (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 1, 2))
        return;
if (argc == 1)
    debug_set_output (NULL);
else if (!debug_set_output (ARG (1))
    M4ERROR ((warning_status, errno, "cannot set debug file %s", ARG (1)));
}

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

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

static void
m4_len (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 2, 2))
        return;
    shipout_int (obs, strlen (ARG (1)));
}

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

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

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

    haystack = ARG (1);
    result = strstr (haystack, ARG (2));
    retval = result ? result - haystack : -1;
static void
m4_substr (struct obstack *obs, int argc, token_data **argv)
{
  int start = 0;
  int length, avail;

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

  length = avail = strlen (ARG (1));
  if (!numeric_arg (argv[0], ARG (2), &start))
    return;
  if (argc >= 4 && !numeric_arg (argv[0], ARG (3), &length))
    return;
  if (start < 0 || length <= 0 || start >= avail)
    return;
  if (start + length > avail)
    length = avail - start;
  obstack_grow (obs, ARG (1) + start, length);
}

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

    for (from = '0'; *s != '0'; from = to_uchar (*s++))
    {
        if (*s == '-' && from != '0')
        {
            to = to_uchar (*++s);
            if (to == '0')
            {
                /* trailing dash */
                obstack_1grow (obs, '-');
                break;
            }
        } else if (from <= to)
        {
            while (from++ < to)
                obstack_1grow (obs, from);
        } else
        {
            while (--from >= to)
                obstack_1grow (obs, from);
        }
    } else
    {
        obstack_1grow (obs, *s);
    }
    obstack_1grow (obs, '0');
    return (char *) obstack_finish (obs);
}

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

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

if (bad_argc (argv[0], argc, 3, 4) || !*data || !*from)
{
    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 |   
|                                                          |
`------------------------------------------------------------------*/
static int substitute_warned = 0;

static void substitute (struct obstack *obs, const char *victim, const char *repl, struct re_registers *regs)
{
    int ch;
    __re_size_t ind;
    while (1)
    {
        const char *backslash = strchr (repl, '\);
        if (!backslash)
        {
            obstack_grow (obs, repl, strlen (repl));
            return;
        }
        obstack_grow (obs, repl, backslash - repl);
        repl = backslash;
        ch = *++repl;
        switch (ch)
        {
        case '0':
            if (!substitute_warned)
            {
                M4ERROR ((warning_status, 0, "Warning: \0 will disappear, use \& instead in replacements"));
                substitute_warned = 1;
            }
            /* Fall through. */
            case '&':
                obstack_grow (obs, victim + regs->start[0],
                               regs->end[0] - regs->start[0]);
                repl++;
                break;
        case '1': case '2': case '3': case '4': case '5': case '6':
                   case '7': case '8': case '9':
            ind = ch -= '0';
            if (regs->num_regs - 1 <= ind)
                M4ERROR ((warning_status, 0, "Warning: \& will disappear, use \0 instead in replacements");
            break;
        case '\':
            if (!substitute_warned)
            {
                M4ERROR ((warning_status, 0, "Warning: \ will disappear, use \\ instead in replacements");
                substitute_warned = 1;
            }
            /* Fall through. */
        case '0':
            if (!substitute_warned)
            {
                M4ERROR ((warning_status, 0, "Warning: \0 will disappear, use \& instead in replacements");
                substitute_warned = 1;
            }
            /* Fall through. */
"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;
    }

*/------------------------------------------.
| 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;
    }

static void
m4_regexp (struct obstack *obs, int argc, token_data **argv)
{

const char *victim; /* first argument */
const char *regexp; /* regular expression */
const char *repl; /* replacement string */

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

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

victim = TOKEN_DATA_TEXT (argv[1]);
regexp = TOKEN_DATA_TEXT (argv[2]);

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

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

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

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

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

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

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

    regexp = TOKEN_DATA_TEXT (argv[2]);

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

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

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

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

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

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

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

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

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

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

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

    free_pattern_buffer (&buf, &regs);
}

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

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

void
m4_placeholder (struct obstack *obs M4_GNUC_UNUSED, int argc,
    token_data **argv)
{
    M4ERROR ((warning_status, 0, "\nbuiltin `%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++;
    break;

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

1.73 MIT Kerberos V5 1.11.1
1.73.1 Available under license:

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

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```
```
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lit/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lit/gss_mechs/mech_spnego/mech/spnego_mech.c
```
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lib/krb5/kadm5/kadm_host_srv_names.c
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lib/krb5/kdb/kdb_convert.c
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lib/krb5/kdb/kdb_hdr.h
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```
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/prop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*-
/* include/k5-base64.h - base64 declarations */
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/*

* This prototype for k5-int.h (Krb5 internals include file)
* includes the user-visible definitions from krb5.h and then
* includes other definitions that are not user-visible but are
* required for compiling Kerberos internal routines.
*
* John Gilmore, Cygnus Support, Sat Jan 21 22:45:52 PST 1995
*/
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7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westge.com> Magnavox GPS clock driver
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54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
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1.82 OpenSSL patch to 0.9.8 branch to add
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1.83 openvmtools 9.4.0 :1280544

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1.85 pciutils 3.1.9 :2010-01-31 Martin Mares

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1.89 popt 1.16

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1.92 protobuf 3.5.1
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* Added generation of field number constants.

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* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

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* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.

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* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

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

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#
# Please send patches to <config-patches@gnu.org>. Submit a context
# diff and a properly formatted ChangeLog entry.
#
# Configuration subroutine to validate and canonicalize a configuration type.
# Supply the specified configuration type as an argument.
# If it is invalid, we print an error message on stderr and exit with code 1.
# Otherwise, we print the canonical config type on stdout and succeed.
#
# This file is supposed to be the same for all GNU packages
# and recognize all the CPU types, system types and aliases
# that are meaningful with *any* GNU software.
# Each package is responsible for reporting which valid configurations
# it does not support. The user should be able to distinguish
# a failure to support a valid configuration from a meaningless
# configuration.
#
# The goal of this file is to map all the various variations of a given
# machine specification into a single specification in the form:
# CPU_TYPE-MANUFACTURER-OPERATING_SYSTEM
# or in some cases, the newer four-part form:
# CPU_TYPE-MANUFACTURER-KERNEL-OPERATING_SYSTEM
# It is wrong to echo any other type of specification.
#!/bin/sh
# install - install a program, script, or datafile

scriptversion=2003-09-24.23

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# Calling this script install-sh is preferred over install.sh, to prevent
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# 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.
*
* Portable Windows Library
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Version 1.0

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 @file arch.h

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*/
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/**
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 @brief Speex preprocessor
 */
/*
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.. highlightlang:: none

.. _history-and-license:

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------------

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 https://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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Mersenne Twister
--------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
Sockets

-------

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

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-------------------------------

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Execution tracing
-----------------

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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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---------

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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
---------

The file `Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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expat
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zlib

----

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

cfuhash

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

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1.98 python 3.5.2
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Python was created in the early 1990s by Guido van Rossum at Stichting
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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.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
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Early bug reports and patches:

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The ccache-zlib patch was downloaded from http://www.gustaebel.de/lars/ccache/

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1.112 VMware-hypervisor-port-check Jan 5, 2015

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- modules/audio_coding/codecs/g711/main/source/g711.h
- modules/audio_coding/codecs/g722/main/source/g722_decode.c
- modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
- modules/audio_coding/codecs/g722/main/source/g722_encode.c
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* 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 *
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* 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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 * $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
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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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#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. */

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

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

int opterr = 1;

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

int optopt = '?';
/* Keep a global copy of all internal members of getopt_data. */

static struct _getopt_data getopt_data;

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

#if defined _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. */

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

#if defined USE_NONOPTION_FLAGS
#define SWAP_FLAGS(ch1, ch2)
    if (d->__nonoption_flags_len > 0)
        { char __tmp = __getopt_nonoption_flags[ch1];
          __getopt_nonoption_flags[ch1] = __getopt_nonoption_flags[ch2];
          __getopt_nonoption_flags[ch2] = __tmp;
        }
#else
#define SWAP_FLAGS(ch1, ch2)
#endif

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

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

/* Update records for the slots the non-options now occupy. */
d->__first_nonopt += (d->optind - d->__last_nonopt);
d->__last_nonopt = d->optind;
}

/* Initialize the internal data when the first call is made. */
static const char *
_getopt_initialize (int argc, char **argv, const char *optstring,
    int posixly_correct, struct _getopt_data *d)
{
    /* Start processing options with ARGV-element 1 (since ARGV-element 0
     * is the program name); the sequence of previously skipped
     * non-option ARGV-elements is empty. */
    d->__first_nonopt = d->__last_nonopt = d->optind;
    d->__nextchar = NULL;
    d->__posixly_correct = posixly_correct || !!getenv("POSIXLY_CORRECT");
/* Determine how to handle the ordering of options and nonoptions. */
if (optstring[0] == '-')
{
d->__ordering = RETURN_IN_ORDER;
++optstring;
}
else if (optstring[0] == '+')
{
d->__ordering = REQUIRE_ORDER;
++optstring;
}
else if (d->__posixly_correct)
d->__ordering = REQUIRE_ORDER;
else
d->__ordering = PERMUTE;
#if defined _LIBC && defined USE_NONOPTION_FLAGS
if (!d->__posixly_correct
&& argc == __libc_argc && argv == __libc_argv)
{
if (d->__nonoption_flags_max_len == 0)
{
if (__getopt_nonoption_flags == NULL
|| __getopt_nonoption_flags[0] == '\0')
d->__nonoption_flags_max_len = -1;
else
{
const char *orig_str = __getopt_nonoption_flags;
int len = d->__nonoption_flags_max_len = strlen (orig_str);
if (d->__nonoption_flags_max_len < argc)
d->__nonoption_flags_max_len = argc;
__getopt_nonoption_flags =
(char *) malloc (d->__nonoption_flags_max_len);
if (__getopt_nonoption_flags == NULL)
d->__nonoption_flags_max_len = -1;
else
memset (__mempcpy (__getopt_nonoption_flags, orig_str, len),
'\0', d->__nonoption_flags_max_len - len);
}
}
d->__nonoption_flags_len = d->__nonoption_flags_max_len;
}
else
d->__nonoption_flags_len = 0;
#endif
return optstring;

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/* 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 '='. 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)
xchange ((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)
xchange ((char **) argv, d);
        else if (d->__first_nonopt == d->__last_nonopt)
            d->__first_nonopt = d->optind;
        d->__last_nonopt = argc;
    }
    d->optind = argc;
}

    /* If we have done all the ARGV-elements, stop the scan
and back over any non-options that we skipped and permuted. */
if (d->optind == argc)
{
  /* Set the next-arg-index to point at the non-options
     that we previously skipped, so the caller will digest them. */
  if (d->__first_nonopt != d->__last_nonopt)
    d->optind = d->__first_nonopt;
  return -1;
}

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

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

  /* We have found another option-ARGV-element.
   Skip the initial punctuation. */
  d->__nextchar = (argv[d->optind] + 1
+ (longopts != NULL && argv[d->optind][1] == '-'));

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

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

   On the other hand, if there's a long option "fubar" and
   the ARGV-element is "-fu", do consider that an abbreviation of
   the long option, just like "--fu", and not "-f" with arg "u".

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

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

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

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

if (ambig && !exact)
{
if (print_errors)
{
#pragma 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
"),
argv[0], argv[d->optind]);
#endif
}
d->__nextchar += strlen (d->__nextchar);
d->optind++;
d->optopt = 0;
return '?';
}

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

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

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

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);
#else
#endif

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

} /* +option or -option */
#else
fprintf (stderr, "%
%s: option `-%c%s' doesn't allow an argument\n"),
argv[0], argv[d->optind - 1][0],
pfound->name);
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#elif defined _LIBC && defined USE_IN_LIBIO
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
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);
                                }
                            #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] == ':' ? ':' : '?';
                }
            }
        else
            {
                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'
"), argv[0], d->__nextchar);
    #else
        fprintf (stderr, _("%s: unrecognized option `--%s'
"), argv[0], d->__nextchar);
    #endif
#else
        fprintf (stderr, _("%s: unrecognized option `%c%s'
"), argv[0], argv[d->optind][0], d->__nextchar);
#endif
    #endif
    
    if (argv[d->optind][1] == '-') 
    
    /* --option */
    
    #if defined _LIBC && defined USE_IN_LIBIO
        n = __asprintf (&buf, _("%s: unrecognized option `--%s'
"), argv[0], argv[d->optind][0], d->__nextchar);
    #else
        fprintf (stderr, _("%s: unrecognized option `%c%s'
"), argv[0], argv[d->optind][0], d->__nextchar);
    #endif
#else
    fprintf (stderr, _("%s: unrecognized option `%c%s'
"), argv[0], argv[d->optind][0], d->__nextchar);
#endif
    
    #if defined _LIBC && defined USE_IN_LIBIO
        if (n >= 0)
            _IO_flockfile (stderr);
            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
            ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;
            __fxprintf (NULL, "%s", buf);
            } 
        } 
    } 
#endif 
#else
    fprintf (stderr, _("%s: unrecognized option `%c%s'
"), argv[0], argv[d->optind][0], d->__nextchar);
#endif 

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

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

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

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

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

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

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

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

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

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

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

    free (buf);
  }
#endif
}

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

/* This is an option that requires an argument. */
if (*d->__nextchar != '\0')
{
  d->optarg = d->__nextchar;
  /* If we end this ARGV-element by taking the rest as an arg,
   we must advance to the next element now. */
  d->optind++;
}
else if (d->optind == argc)
{
  if (print_errors)
/* 1003.2 specifies the format of this message. */
#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);
((_IO_FILE *) stderr)->_flags2 = old_flags2;
_IO_funlockfile (stderr);
free (buf);
}
#else
fprintf (stderr, _("%s: option `-W %s' is ambiguous\n"),
argv[0], argv[d->optind]);
#endif
}
d->__nextchar += strlen (d->__nextchar);

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d->optind++;  
return '?';  
}
if (pfound != NULL)  
{  
  option_index = indfound;  
  if (*nameend)  
  {  
    /* Don't test has_arg with >, because some C compilers don't  
      allow it to be used on enums. */  
    if (pfound->has_arg)  
      d->optarg = nameend + 1;  
    else  
    {  
      if (print_errors)  
      {  
#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;  
              _IO_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 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);
                    }
                #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] == ':' ? ':' : '?';
    }
#else
    fprintf (stderr,
        _("%s: option `%s' requires an argument\n"),
        argv[0], argv[d->optind - 1]);
#endif
    #endif
    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
{
    /* 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);
    }
#endif
}
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 = optarg[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.
");  
                digit_optind = this_option_optind;  
                printf("option %c
", c);  
        }  
    }  
#endif
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 */

#endif /* TEST */

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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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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2.3 libattr1:amd64 1:2.4.47 :2

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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.

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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 (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (th@zelator.in-berlin.de(?) and Brian D. Carlstrom (bdcarlstrom@mcs.intercom.com) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DR66000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cormas.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) ported the SUNOS to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)
Boost.Geometry (aka GGL, Generic Geometry Library)

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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an Integral Constant type.

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

[endsect]

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man/errc.3bsd
man/explicit_bzero.3bsd
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2.11 libgcc1 1:8.2.0-1ubuntu2~18.04
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ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
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The current gcc-4.4 source package is taken from the SVN gcc-4_4-branch.

Changes: See changelog.Debian.gz

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

<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-dbglibstdc++6-4.4-pic</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-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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- libdecnumber
- libgomp
- libssp
- libstdc++-v3
- libobjc
- libmudflap
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#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
    class Permission;
    class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:
    Permission (::java::lang::String *);
}
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};
#endif // __java_security_Permission__

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#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 : 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));
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* m4/ax_func_which_gethostname_r.m4

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02111-1307 USA. */

package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
   * A simple Taglet which handles Copyright information.
   */
   public class CopyrightTaglet implements Taglet {

   private static final String NAME = "copyright";
   private static final String HEADER = "Copyright:";
   }
public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        boolean haveValidTag = false;
    }
}
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
    if (tags[i].text().length() > 0) {
        haveValidTag = true;
    }
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
}

CopyrightTaglet.java
1f+gnu/classpath/tools/taglets/CopyrightTaglet.java/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/String;
ConstantValuecopyrightHEADER
Copyright: <init>()V
Code
LineNumberTable_LocalVariableTable晰- Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructor_inMethod
inOverview
inPackage
inType
isInlineTag
register(Ljava/util/Map;)V

&(*)
java/util/Map+, put&(Ljava/lang/Object:Ljava/lang/Object:)Ljava/lang/Object; tagletMapLjava/util/Map:copyrightTaglettoString()Lcom/sun/javadoc/Tag();Ljava/lang/String;3com/sun/javadoc/Tag
go506*(Lcom/sun/javadoc/Tag;Ljava/lang/String:tagLcom/sun/javadoc/Tag;2::text
=?>java/lang/String@Alength()ICjava/lang/StringBuffer
BF<dl>
BHIappend,(Ljava/lang/String::)Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN<dt><i>Copyright &#169;
KPQ(Ljava/lang/String::)V
KSTT<(Ljava/lang/String::)Ljava/lang/StringBuilder;V</i></dt>
KX0Z</dl>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

/* -
&,*,.,2,6,: ,>!,B"#QYSL*+%+WFGH-.*/
/* 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 {

    private static final long serialVersionUID = -5636570222231596674L;

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

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this Permission as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It must satisfy the contract of <code>Object.hashCode</code>: it must be the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();
/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>('+ getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
string = string.append('(');
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());

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

string = string.append(')');
return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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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/Permission.java

SourceFilePermission.java

16/gnu/javax/sound/AudioSecurityManager$Permission.java

1811
extern "Java"
{
namespace gnu
{
namespace java
{
namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}
}

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

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.07)

" Standard preamble:
" ========================================================================
.de Sh " Subsection heading
.br
.if t .Sp
.ne 5
.PP
\B\S1\fR
.PP
.. 
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
.. 
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \S1
.. 
.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\'-1.1v\l\'-1p\s-2+\l\'-1p'+\s0\v\l\'-1p'
.ie n \{\}
.. ds -- \*(W-
Escape single quotes in literal strings from groff's Unicode transform.

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

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<http://www.gnu.org/licenses/> - */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix "."s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */
#define ASM_SHORT "%t.word\t"
#define ASM_LONG "%t.long\t"
#define ASM_QUAD "%t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, "%t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".comm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
# define ASM_OUTPUT_ALIGN(FILE,LOG)\
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3, 29 June 2007

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<para>
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<bridgehead id="ConveyingNonSource" renderas="sect1">6. Conveying Non-Source Forms.
</bridgehead>

<para>
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<para>
<orderedlist numeration="loweralpha">
<listitem>
<para>
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</para>
</listitem>
<listitem>
<para>
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</para>
</listitem>
<listitem>
<para>
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</para>
</listitem>
<listitem>
<para>
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</para>
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</para>
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```
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This program comes with ABSOLUTELY NO WARRANTY; for details type &lsquo;<literal>show w</literal>&rsquo;.
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```

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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>gcc-@BV@-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-@BV@</td>
<td>libstdc++6</td>
<td>libstdc++6-@BV@-doc</td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-@BV@</td>
<td>libgfortran3</td>
<td>gfortran-@BV@-doc</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++6-@BV@-dbg</td>
<td>libstdc++6-@BV@-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>libgcj10-src</td>
<td>libgcj10-dev</td>
<td>libgcj10-dbg</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

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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 (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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Version 3.1, 31 March 2009

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/* Definitions for BSD assembler syntax for Intel 386 (actually AT&T syntax for insns and operands, adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE)  
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
(fputs (".comm \", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
(fputs (".lcomm \", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#if defined 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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"
" 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<<."
Escape single quotes in literal strings from groff's Unicode transform.

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

@end smallexample

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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
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@end smallexample

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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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#
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# it under the terms of the GNU General Public License as published by
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# 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):
        pass
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',
            'ltms_m4',
            'ltos_m4',
            'ltsg_m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    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+/)*[0-9]'

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

        # Matches one year.
        self.year_re = re.compile (r'[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (
            # 1: ‘Copyright (C)’, etc.
            '(\[Cc\]opyright' 
            '\[[Cc]\]opyright\s+\[Cc\]' 
            '\[[Cc]\]opyright\s+%' 
            '\[[Cc]\]opyright\s+&copy;' 
            '\[[Cc]\]opyright\s+@copyright\{\}' 
            'copyright = u"' 
            '[@set\s+copyright\[w-\]+]' 
            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\(\s*(?:' + ranges + ',?\s*)' 
            '@value\{[^{}]*\}\s*\)' 
            # 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 ',', '.
selfseparator = ''

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

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def _init__ (self, year):
        self.year = year

    def _str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)
def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
             and (holder not in self.holder_prefixes
                  or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)
intro = match.group (1)
if intro.startswith ('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end (2):].strip()
    if after_years != '':
        self.errors.report (pathname,
            'trailing characters in @set: '
            + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break
    # If the next line doesn't look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation (next_line)
    if not self.continuation_re.match (continuation):
        break
    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None
    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match
    holder = match.group (4)
    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report (pathname, 'missing copyright holder')
        return (False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report (pathname,
            'unrecognised copyright holder: ' + holder)
        return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'
    return (line != orig_line, line, next_line)

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

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                             file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                       'unrecognised copyright: %s'
                                       % line.strip())
                lines.append (line)
                line = next_line

            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                    os.fchmod (file.fileno(), mode)
                    if self.use_quilt:
                        subprocess.call (
                          ['quilt', 'add', pathname])
                    os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)
def add_option (self, name, help, handler):
self.option_help.append ((name, help))
self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
self.dirs.append ((dir, filter))
def o_help (self, option = None):
sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
'Options:\n' % sys.argv[0])
format = '%-15s %s\n'
for (what, help) in self.option_help:
sys.stdout.write (format % (what, help))
sys.stdout.write ('\nDirectories:\n')
format = '%-25s'
i=0
for (dir, filter) in self.dirs:
i += 1
if i % 3 == 0 or i == len (self.dirs):
sys.stdout.write (dir + '\n')
else:
sys.stdout.write (format % dir)
sys.exit (0)

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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',
            '.inst',
            '.test',
            '.t',
            '.x',
            '.y',
            '.yml',
        ])

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

            # Handled separately.
            'testsuite',
        ])

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])
def skip_file (self, dir, filename):
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    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 (['.java', '.java'])

        self.skip_extensions |= set (['.java', '.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 LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_dirs |= set (['soft-fp', '.soft-fp'])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (['intro.xml', 'intro.xml'])

        self.skip_dirs |= set (['intro.xml', 'intro.xml'])

        self.skip_dirs |= set (['html', 'html'])
# The testsuite data files shouldn't be changed.
'data',

# Contains imported images
'images',
])

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', canon_fsf)
self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('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')
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 ('libcc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir ('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')

# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
<title>License</title>
<meta name="generator" content="DocBook XSL Stylesheets Vsnapshot" />
<meta name="keywords" content="ISO C++, library" />
<meta name="keywords" content="ISO C++, runtime, library" />
<link rel="home" href="..//index.html" title="The GNU C++ Library" />
<link rel="up" href="status.html" title="Chapter1.Status" />
<link rel="prev" href="status.html" title="Chapter1.Status" />
<link rel="next" href="bugs.html" title="Bugs" />
<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>
<hr/>
</div>
<div class="section">
<div class="titlepage">
</div>
<p>
There are two licenses affecting GNU libstdc++: one for the code, and
one for the documentation.
</p>
<p>
There is a license section in the FAQ regarding common questions. If you have more
</p>
questions, ask the FSF or the <a class="link" href="http://gcc.gnu.org/lists.html" target="_top">gcc mailing list</a>.

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Version3.1.31March2009

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Version 1.3, 3 November 2008


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2.13 libhogweed4 3.4.1-1

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2.15 liblzma5 5.2.2-1.3
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DES
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This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

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SHA224, SHA256, SHA384, and SHA512
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That's all there is to it!
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@mitiame.mitia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (tfh@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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# 128 bit long double support was introduced with GCC 4.6.0 for FreeBSD.
# These lines make the symbols to get a @@GCC_4.6.0.

%exclude {
  __adddf3
  __copysignf3
  __divf3
  __divt3
  __eqf2
  __extendedf3
  __extendedf2
  __extendedf2
GCC_4.6.0 {
    __addtf3

%ifndef __x86_64__
    __copysignedtf3
%endif
    __divtc3
    __divtf3
    __eqtf2
    __extenddf2tf2
    __extendstf2
    __extendxtf2
%ifndef __x86_64__
    __fabstf2
%endif
    __fixtfdi
    __fixtfsi
%ifndef __x86_64__
    __fixtfi
%endif
    __fixunstfdi
    __fixunstfsi
    __fixunstfpi
    __floatdif
    __floatsif
    __floattif
    __floatundif
    __floatunsif
    __floatuntif
    __getf2
    __gtuf2
    __ltf2
    __lttf2
    __multc3
    __multf3
    __negtf2
    __netf2
    __powitf2
    __subtf3
    __trunctdf2
    __trunctsf2
    __trunctxf2
    __unordtf2
}

G
__fixunstfidi
__fixunstfsi
%ifdef __x86_64__
__fixunstfti
%endif
__floatditf
__floatsitf
%ifdef __x86_64__
__floattitf
%endif
__floatunditf
__floatunsitf
%ifdef __x86_64__
__floatuntitf
%endif
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctfdf2
__trunctfsf2
__trunctfxf2
__unordtf2
}

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

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

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

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

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

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

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/* 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, ";.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
", (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), ";.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) 

Open Source Used In Meeting Server 2.7
sprintf ((BUF), "*/%s*/\ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
" Standard preamble:
" ========================================================================
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \$1
..
.de Ve " End verbatim text
.ft R
.fi
..
" Set up some character translations and predefined strings. \*(-- will
" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
" double quote, and \*(R" will give a right double quote. \*(C+ will
" give a nicer C++. Capital omega is used to do unbreakable dashes and
" therefore won't be available. \*(C' and \*(C' expand to `` in nroff,
" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-1\v'\h'-1p'+\h'-1p'+\s0\v'.1\v'\h'-1p'
.ie n {\n . ds -- \(*W-
 . ds PI pi
 . if \(n,H=4u)&(1m=24u) . ds -- \(*W\h'-12u\%(\h'-12u'-\v' diablo 10 pitch
 . if \(n,H=4u)&(1m=20u) . ds -- \(*W\h'-12u\%(\h'-8u'-\v' diablo 12 pitch
 . ds L" "
 . ds R" "
 . ds C' "
 . ds C' "
 'br\\
 .e\}|
 . ds -- \}
}
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’.

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

Fear. Run. Save yourself. No user-serviceable parts.

Simple accents for nroff and troff
"way too many mistakes in technical documents.

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.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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# while most tests in other directories are just things that failed at some
# point in the past.
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

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

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

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

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()
self.skip_files |= set([
    # Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mknstalldirs',
    '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('
')
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\s+)*[0-9]'

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

# Matches one year.
self.year_re = re.compile ('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '((Cc)opyright'  
    '[[Cc]opyright\s+([Cc])]'  
    '[[Cc]opyright\s+%]'  
    '[[Cc]opyright\s+&copy;'  
    '[[Cc]opyright\s+@copyright{ }]'  
    '[copyright = u]'  
    '[@set\s+copyright[w-]+]')

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s+?(?:' + ranges + ',?  
  '@value\{[^{}]*\})')

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\ + name + '(?:\s?' + name + '+ )*)'?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',  
    re.IGNORECASE)
self.comment_re = re.compile('#|[*]+|;|%=|//|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()  

# True to 'quilt add' files before changing them.
self.use_quilt = False
# If set, force all notices to include this year.
self.max_year = None

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

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

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year
    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
    raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):

# Leave texinfo variables alone.
if years.startswith('@value'):
    return years

(min_year, max_year) = self.year_range(years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file(dir, filename):
    max_year = max(max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
except StopIteration:
    break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]
# Update the copyright years.
years = match.group(2).strip()
try:
    canon_form = self.canonicalise_years(dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report(pathname, str(e))
return (False, orig_line, next_line)

line = (line[:match.start(2)]
    + ('' if intro.startswith('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end(2):])

# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)'
elif intro.endswith('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

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

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...

' % 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',])
# 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
            'images',
        ])

        self.own_files |= set (['
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
return re.compile ('// (C) Copyright Jeremy Siek')
return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Intel Corporation')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('NVIDIA Corporation')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors.')
        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 ('libc1')
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',
    'libc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
]
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3.1 libboost-system1.65.1 1.65.1+dfsg-0ubuntu5

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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
specfic 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(age@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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[endsect]

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src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
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@item Definitions.

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

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the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

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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.

A ``Standard Interface'' means an interface that either is an official
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interfaces specified for a particular programming language, one that
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The ``System Libraries'' of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
``Major Component'', in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
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@end enumerate

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@end enumerate

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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.

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

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

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

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

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\emph{%(tool)s, The %(name)s Development Environment}

\emph{%(edition)s}

\begin{DUlineblock}{0em}
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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
", (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\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
\texttt{PREFIX} is the class of label and \texttt{NUM} is the number within the class. 
This is suitable for output with `assemble_name'. */

\begin{verbatim}
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\ 
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))
\end{verbatim}

/* 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 4.11 (Pod::Simple 3.35)
\" Standard preamble:
\" ========================================================================
\de Sp \" Vertical space (when we can't use .PP)
   if t .sp .5v
   if n .sp
.. \de Vb \" Begin verbatim text
   .ft CW
   .nf
   .ne \$1
   ...
.. \de Ve \" End verbatim text
   .ft R
   .fi
   ...
\" Set up some character translations and predefined strings. \*(-- will
\" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
\" double quote, and \*(R" will give a right double quote. \*(C+ will
\" give a nicer C++. Capital omega is used to do unbreakable dashes and
\" therefore won't be available. \*(C" and \*(C' expand to " in nroff,
\" nothing in troff, for use with C<>
\tr \"\{W-\}
   .ds C+ C\{v'-.1v\h'-.1p'\}s-2+\h'-.1p'+\$0\v'.1v\h'-.1p'
   .ie n \{|\}
   . ds -- \{W-
   . ds PI pi
   . if (\n(\h=4u) &(1m=24u) .ds -- \{W\h'-.12u\} \{W\h'-.12u\} diablo 10 pitch
   . if (\n(\h=4u) &(1m=20u) .ds -- \{W\h'-.12u\} \{W\h'-.8u\} diablo 12 pitch
   . ds L" "
   . ds R" "
   . ds C' "
\end{verbatim}
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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fudge factors for nroff and troff

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Example

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

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

@example

Example

program Copyright (C) year name of author

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@c man end

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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 + '\n')
        self.num_errors += 1

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

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

        self.skip_files |= set (['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
        ''])
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkpinstalldirs',
'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 (r'^\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 ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

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

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '\[0-9\][\-\-0-9,.\s\s+]and\s+[0-9-]\]

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

        # Matches one year.
        self.year_re = re.compile ('\[0-9\]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile ("\([^Cc]\)", etc.
            '([Cc]\)\[Cc]\)'  
            '([Cc]\)\[Cc]\)'}
# 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):
```python
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'
                    lines.append (line)
                    line = next_line
                    if changed and self.errors.ok():
                        tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
os.fchmod (file.fileno(), mode)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)
def add_option (self, name, help, handler):
self.option_help.append ((name, help))
self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
self.dirs.append ((dir, filter))
def o_help (self, option = None):
sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'

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'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 + 'n')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

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

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

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

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

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

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

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

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

            # Handled separately.
            'testsuite',
        ])

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

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

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (]
            # Don't change the tests, which could be 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
            'images',
        )

        self.own_files |= set (
            # Contains markup around the copyright owner.
            'spine.xml',
        )

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'

        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
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')
# libggo 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('libsssp')
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',
    'libc',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libsssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCCmdLine().main()

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"> <head> <meta http-equiv="Content-Type" content="text/html;
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CAST128
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DES
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MD4
This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

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**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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3.15 netbase 5.4
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3.16 nginx 1.14
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3.17 Nginx-core 1.14.0

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3.18 zlib1g 1:1.2.11.dfsg-0ubuntu2
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