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HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (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.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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1.4 bridge-utils 1.5

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Julian Seward, Cambridge, UK. jseward@acm.org bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*

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1.12 cryptsetup 1.6.0

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1.17 docker 1.9.1

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Gocheck - A rich testing framework for Go

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1.18 e2fsprogs 1.43.7

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Theodore Ts'o 23-June-2007

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

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

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

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

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

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

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Gadi Oxman, August 1995

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

BSDLIB_PIC_FLAG = -fpic

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

```
$(BSD_LIB): $(OBJS)
```

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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*/

Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@ @ -4,11 +4,11 @ @ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*

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

trivial database library - private includes

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1.19 ethtool 3.2

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1.20 Expat 2.2.4

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1.22 fontconfig 2.6.0 2.6.0

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* unsigned integer data type will do), there's no compile-time endianness
* configuration, and the function prototypes match OpenSSL's. No code from
* Colin Plumb's implementation has been reused; this comment merely compares
* the properties of the two independent implementations.
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible. Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
*/
/* bdf.c
FreeType font driver for bdf files

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scriptversion=2013-10-30.23; # UTC

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- #~ "\n"
- #~ msgstr ""
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<?xml version="1.0" encoding="ISO-8859-1"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1strict.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>

<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />

<!--

This file is generated from xml source: DO NOT EDIT

-->

<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>

k href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />k href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />

k href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />k rel="stylesheet" type="text/css" href="./style/css/prettify.css" />

<script src="./style/scripts/prettify.min.js" type="text/javascript"> </script>

k href="./images/favicon.ico" rel="shortcut icon" /></head>

<body id="manual-page" class="no-sidebar"><div id="page-header">

Modules | Directives | FAQ | Glossary | ./glossary | ./glossary | ./glossary | ./glossary | ./glossary.html | <a href=

href="./sitemap.html">Sitemap

Apache HTTP Server Version 2.4

</div>

<div class="up"><img title="<-" alt="<-" src="./images/left.gif" /></div></div id="path">

Apache > HTTP Server > Documentation > Version 2.4</div><div id="pagecontent"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">

Available Languages: en </div>

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var comments_shortname = 'httpd';

var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

```
if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
```

```
d.write('<div id="comments_thread"><\/div>');
```

```
var s = d.createElement('script');
```

```
s.type = 'text/javascript';
```

```
s.async = true;
```

```
s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
```

 $(d.getElementsByTagName('head')[0] \parallel d.getElementsByTagName('body')[0]).appendChild(s);\\$

}

```
else {
```

d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>'); }

})(window, document);

```
//--><!]]></script></div><div id="footer">
```

```
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href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.
<a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a
href="./mod/directives.html">Directives</a> | <a
href="./mod/directives.html">Directives</a> | <a
href="./mod/directives.html">Directives</a> | <a
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href=".http://wiki.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.

</
```

prettyPrint();

```
}
```

```
//--><!]]></script>
</body></html>
# GENERATED FROM XML -- DO NOT EDIT
```

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

Thanks to the following people for their input: Mike Belshe (mbelshe@netscape.com) Michael Campanella (campanella@stevms.enet.dec.com)

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1.34 inotify-tools 3.14

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1.37.2 Available under license :

The Independent JPEG Group's JPEG software

README for release 8d of 15-Jan-2012

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This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEWGeneral description of JPEG and the IJG software.LEGAL ISSUESCopyright, lack of warranty, terms of distribution.REFERENCESWhere to learn more about JPEG.ARCHIVE LOCATIONSWhere to find newer versions of this software.

ACKNOWLEDGMENTS Special thanks.

FILE FORMAT WARS Software *not* to get.

TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

| install.txt | How to configure and install the IJG software. |
|--|---|
| usage.txt | Usage instructions for cjpeg, djpeg, jpegtran, |
| rdjpgcom, and wrjpgcom. | |
| *.1 | Unix-style man pages for programs (same info as usage.txt). |
| wizard.txt | Advanced usage instructions for JPEG wizards only. |
| change.log | Version-to-version change highlights. |
| Programmer and internal documentation: | |
| libjpeg.txt | How to use the JPEG library in your own programs. |
| example.c | Sample code for calling the JPEG library. |
| structure.txt | Overview of the JPEG library's internal structure. |
| filelist.txt | Road map of IJG files. |
| coderules.tx | t 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. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

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

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REFERENCES

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

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

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

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

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

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

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images,

Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

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

ARCHIVE LOCATIONS

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

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

It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body send usenet/news.answers/jpeg-faq/part1 send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

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 ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

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 fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

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 image files indefinitely.)

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

There are currently distributions in circulation containing the name "libjpeg" which claim to be a "derivative" or "fork" of the original libjpeg, but don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. Furthermore, they violate the license conditions as described under LEGAL ISSUES above. We have no sympathy for the release of misleading and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

TO DO

Version 8 is the first release of a new generation JPEG standard to overcome the limitations of the original JPEG specification. More features are being prepared for coming releases...

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

1.38 jq 1.4 1.38.1 Available under license :

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1.39 jQuery 1.12.1

1.40 json-c 0.12 1.40.1 Available under license :

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1.41 Idns 1.6.17

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scriptversion=2009-04-28.21; # UTC

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

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

ldnsx aims to fix this. It wraps around the ldns python bindings, working around its limitations and providing a well-documented, more pythonistic interface. Copyright (C) 2013 by UNINETT Norid AS

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself, either Perl version 5.14.2 or, at your option, any later version of Perl 5 you may have available. /* From openssh 4.3p2 filename openbsd-compat/fake-rfc2553.h */ /*

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

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers. RC4 is a registered trademark of RSA Laboratories.

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

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

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

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1.45 libcap 2.22

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1.46 libcURL 7.55.1

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1.47 libdrm 1.3.0 :1.1

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1.48 libestr 0.1.9 :0ubuntu2

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1.49 libevent 2.1.4-alpha

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1.50 libiconv 1.14

1.50.1 Available under license :

GNU LIBICONV - character set conversion library

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

It provides support for the encodings:

European languages ASCII, ISO-8859-{1,2,3,4,5,7,9,10,13,14,15,16}, KOI8-R, KOI8-U, KOI8-RU, CP{1250,1251,1252,1253,1254,1257}, CP{850,866,1131}, Mac{Roman,CentralEurope,Iceland,Croatian,Romania}, Mac{Cyrillic,Ukraine,Greek,Turkish}, Macintosh Semitic languages ISO-8859-{6,8}, CP{1255,1256}, CP862, Mac{Hebrew, Arabic} Japanese EUC-JP, SHIFT_JIS, CP932, ISO-2022-JP, ISO-2022-JP-2, ISO-2022-JP-1 Chinese EUC-CN, HZ, GBK, CP936, GB18030, EUC-TW, BIG5, CP950, BIG5-HKSCS, BIG5-HKSCS:2004, BIG5-HKSCS:2001, BIG5-HKSCS:1999, ISO-2022-CN, ISO-2022-CN-EXT Korean EUC-KR, CP949, ISO-2022-KR, JOHAB Armenian **ARMSCII-8** Georgian Georgian-Academy, Georgian-PS Tajik KOI8-T Kazakh PT154, RK1048 Thai ISO-8859-11, TIS-620, CP874, MacThai Laotian MuleLao-1, CP1133 Vietnamese VISCII, TCVN, CP1258 Platform specifics HP-ROMAN8, NEXTSTEP Full Unicode UTF-8 UCS-2, UCS-2BE, UCS-2LE UCS-4, UCS-4BE, UCS-4LE UTF-16, UTF-16BE, UTF-16LE UTF-32, UTF-32BE, UTF-32LE UTF-7 C99, JAVA Full Unicode, in terms of 'uint16_t' or 'uint32_t' (with machine dependent endianness and alignment) UCS-2-INTERNAL, UCS-4-INTERNAL Locale dependent, in terms of 'char' or 'wchar_t' (with machine dependent endianness and alignment, and with OS and locale dependent semantics) char, wchar_t

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

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

```
European languages
CP{437,737,775,852,853,855,857,858,860,861,863,865,869,1125}
Semitic languages
CP864
Japanese
EUC-JISX0213, Shift_JISX0213, ISO-2022-JP-3
Chinese
BIG5-2003 (experimental)
Turkmen
TDS565
Platform specifics
ATARIST, RISCOS-LATIN1
```

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

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

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

Installation

As usual for GNU packages:

\$./configure --prefix=/usr/local
\$ make
\$ make install

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

On systems other than GNU/Linux, the iconv program will be internationalized only if GNU gettext has been built and installed before GNU libiconv. This means that the first time GNU libiconv is installed, we have a circular dependency between the GNU libiconv and GNU gettext packages, which can be resolved by building and installing either
- first libiconv, then gettext, then libiconv again,
or (on systems supporting shared libraries, excluding AIX)
- first gettext, then libiconv, then gettext again.
Recall that before building a package for the second time, you need to erase the traces of the first build by running "make distclean".

This library can be built and installed in two variants:

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

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

To use it in an autoconfiguring package:

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

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

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

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

On GNU/Linux and Solaris:

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

On OSF/1:

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

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

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Download

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

Homepage

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

Bug reports to

<bug-gnu-libiconv@gnu.org>

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1.57 libvpx 1.4.0

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1.58 linux 3.10.10

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* http://www.hypermall.com/

- * 10/1/97 commented out CFG_PHYIE bit we don't care when the PHY
- * interrupts us (except possibly for removal/insertion of the cable?)
- * 10/4/97 began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

- * 10/5/97 added code to handle PHY interrupts, disable PHY on
- * loss of link, and correctly re-enable PHY when link is
- * re-established. (put back CFG_PHYIE)
- * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- *
- * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- *

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *

* Implementing minimal-copy of received data:

- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *

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*

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```
* M. Welsh, 6 July 1996
*
```

*

*/

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|| strcmp(license, "GPL v2") == 0
|| strcmp(license, "GPL and additional rights") == 0
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Michael Holzt <kju@debian.org> for his contributions to the dvb-net driver

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

Martin Schaller <martin@smurf.franken.de> for patching the cable card decoder driver

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Christoph Martin <martin@uni-mainz.de> for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org> Dennis Noermann <dennis.noermann@noernet.de> Felix Domke <tmbinc@elitedvb.net> Florian Schirmer <jolt@tuxbox.org> Ronny Strutz <3des@elitedvb.de> Wolfram Joost <dbox2@frokaschwei.de> ...and all the other dbox2 people for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

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Michael Krufky <mkrufky@m1k.net> for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net> for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com> for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com> for the or51211 and or51132 frontend drivers, and for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

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</appendix> Contributors to bttv:

Michael Chu <mmchu@pobox.com> AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk> Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de> Radio card (ITT sound processor)

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1.59 linux kernel 4.4.110

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QLogic Linux FC-FCoE Driver

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* http://www.hypermall.com/

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

- *
- * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- *
- * Linux driver for the IDT77201 NICStAR PCI ATM controller.
- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *

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- *
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- *
- * M. Welsh, 6 July 1996
- *
- *
- */

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Michael Chu <mmchu@pobox.com> AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk> Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de> Radio card (ITT sound processor)

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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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*
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ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)Thanks go to the following people for patches and contributions:

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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.
- and spenning mistakes.
- \ast 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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Michael Chu <mmchu@pobox.com> AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk> Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de> Radio card (ITT sound processor)

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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1.61 linux-pam_GPLv2 1.1.5

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1.62 Im-sensors 3.3.1 :2ubuntu1

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

/*

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*/

/*

* regex.h -- regular expression definitions for lsof

*

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

*

- * When the dialect has a POSIX-conformant regular expression function set,
- * USE_LIB_REGEX is not defined and this header file #include's <regex.h>.

*

- * V. Abell <abe@purdue.edu>
- * Purdue University

*/

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/*

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*/

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Version 2, June 1991

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# 1.70 lvm2 2.02.79

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

#include "m4.h"

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

#define ARG(i) (argc > (i) ? TOKEN\_DATA\_TEXT (argv[i]) : "")

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

#define DECLARE(name) \
static void name (struct obstack \*, int, token\_data \*\*)

DECLARE (m4\_\_\_file\_\_); DECLARE (m4\_\_\_line\_\_); DECLARE (m4\_\_\_program\_\_); DECLARE (m4\_builtin); DECLARE (m4\_changecom); DECLARE (m4\_changequote); #ifdef ENABLE\_CHANGEWORD DECLARE (m4\_changeword); #endif DECLARE (m4\_debugmode); DECLARE (m4\_debugfile); DECLARE (m4\_decr); DECLARE (m4\_define); DECLARE (m4\_defn); DECLARE (m4\_divert); DECLARE (m4\_divnum); DECLARE (m4\_dnl); DECLARE (m4\_dumpdef); DECLARE (m4\_errprint); DECLARE (m4\_esyscmd); DECLARE (m4\_eval); DECLARE (m4\_format);

DECLARE (m4\_ifdef); DECLARE (m4\_ifelse); DECLARE (m4\_include); DECLARE (m4\_incr); DECLARE (m4\_index); DECLARE (m4\_indir); DECLARE (m4\_len); DECLARE (m4\_m4exit); DECLARE (m4\_m4wrap); DECLARE (m4\_maketemp); DECLARE (m4\_mkstemp); DECLARE (m4\_patsubst); DECLARE (m4\_popdef); DECLARE (m4\_pushdef); DECLARE (m4\_regexp); DECLARE (m4\_shift); DECLARE (m4\_sinclude); DECLARE (m4\_substr); DECLARE (m4\_syscmd); DECLARE (m4\_sysval); DECLARE (m4\_traceoff); DECLARE (m4\_traceon); DECLARE (m4\_translit); DECLARE (m4\_undefine); DECLARE (m4\_undivert);

#undef DECLARE

static builtin const builtin\_tab[] =
{

/\* name GNUext macros blind function \*/

{ "\_\_\_file\_\_\_", true, false, false, m4\_\_\_file\_\_}, { "\_\_line\_\_", true, false, false, m4\_\_\_line\_\_}, { "\_\_program\_\_", true, false, false, m4\_\_\_program\_\_\_}, { "builtin", true, true, true, m4\_builtin }, { "changecom", false, false, false, m4\_changecom }, { "changequote", false, false, false, m4\_changequote }, #ifdef ENABLE\_CHANGEWORD { "changeword", true, false, true, m4\_changeword }, #endif { "debugmode", true, false, false, m4\_debugmode }, { "debugfile", true, false, false, m4\_debugfile }, { "decr", false, false, true, m4\_decr }, { "define", false, true, true, m4\_define }, { "defn", false, false, true, m4\_defn }, { "divert", false, false, false, m4\_divert },

| { "divnum",        | false, false, false, m4_divnum },   |
|--------------------|-------------------------------------|
| { "dnl",           | false, false, false, m4_dnl },      |
| { "dumpdef",       | false, false, false, m4_dumpdef },  |
| { "errprint",      | false, false, true, m4_errprint },  |
| { "esyscmd",       | true, false, true, m4_esyscmd },    |
| { "eval",          | false, false, true, m4_eval },      |
| { "format",        | true, false, true, m4_format },     |
| { "ifdef",         | false, false, true, m4_ifdef },     |
| { "ifelse",        | false, false, true, m4_ifelse },    |
| { "include",       | false, false, true, m4_include },   |
| { "incr",          | false, false, true, m4_incr },      |
| { "index",         | false, false, true, m4_index },     |
| { "indir",         | true, true, true, m4_indir },       |
| { "len",           | false, false, true, m4_len },       |
| { "m4exit",        | false, false, false, m4_m4exit },   |
| { "m4wrap",        | false, false, true, m4_m4wrap },    |
| { "maketemp",      | false, false, true, m4_maketemp },  |
| { "mkstemp",       | false, false, true, m4_mkstemp },   |
| { "patsubst",      | true, false, true, m4_patsubst },   |
| { "popdef",        | false, false, true, m4_popdef },    |
| { "pushdef",       | false, true, true, m4_pushdef },    |
| { "regexp",        | true, false, true, m4_regexp },     |
| { "shift",         | false, false, true, m4_shift },     |
| { "sinclude",      | false, false, true, m4_sinclude },  |
| { "substr",        | false, false, true, m4_substr },    |
| { "syscmd",        | false, false, true, m4_syscmd },    |
| { "sysval",        | false, false, false, m4_sysval },   |
| { "traceoff",      | false, false, false, m4_traceoff }, |
| { "traceon",       | false, false, false, m4_traceon },  |
| { "translit",      | false, false, true, m4_translit },  |
| { "undefine",      | false, false, true, m4_undefine },  |
| { "undivert",      | false, false, false, m4_undivert }, |
| { 0, 1             | false, false, false, 0 },           |
| ι <sup>υ</sup> , Ι | uise, 1050, 1050, 0 J,              |
|                    |                                     |

/\* 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
           "__gnu__", "" },
{ NULL,
{ NULL,
         NULL,
                     NULL },
};
/*_____.
| Find the builtin, which lives on ADDR. |
`_____*/
const builtin *
find_builtin_by_addr (builtin_func *func)
{
const builtin *bp;
for (bp = &builtin_tab[0]; bp->name != NULL; bp++)
 if (bp->func == func)
  return bp;
if (func == m4_placeholder)
 return bp + 1;
return NULL;
}
/*_____
| Find the builtin, which has NAME. On failure, return the |
| placeholder builtin.
                                  `-----*/
const builtin *
find_builtin_by_name (const char *name)
{
const builtin *bp;
for (bp = &builtin_tab[0]; bp->name != NULL; bp++)
 if (STREQ (bp->name, name))
  return bp;
return bp + 1;
}
/*_____
| Install a builtin macro with name NAME, bound to the C function |
| given in BP. MODE is SYMBOL_INSERT or SYMBOL_PUSHDEF.
```

`-----\*/

void
define\_builtin (const char \*name, const builtin \*bp, symbol\_lookup mode)
{
 symbol \*sym;

sym = lookup\_symbol (name, mode); SYMBOL\_TYPE (sym) = TOKEN\_FUNC; SYMBOL\_MACRO\_ARGS (sym) = bp->groks\_macro\_args; SYMBOL\_BLIND\_NO\_ARGS (sym) = bp->blind\_if\_no\_args; SYMBOL\_FUNC (sym) = bp->func; }

/\* Storage for the compiled regular expression of
 --warn-macro-sequence. \*/
static struct re\_pattern\_buffer macro\_sequence\_buf;

/\* Storage for the matches of --warn-macro-sequence. \*/
static struct re\_registers macro\_sequence\_regs;

/\* True if --warn-macro-sequence is in effect. \*/
static bool macro\_sequence\_inuse;

/\*-----.

| Clean up regular expression variables. |

```
static void
free_pattern_buffer (struct re_pattern_buffer *buf, struct re_registers *regs)
{
regfree (buf);
free (regs->start);
free (regs->end);
}
/*_____
Set the regular expression of --warn-macro-sequence that will be
checked during define and pushdef. Exit on failure.
                                                ×______*/
void
set_macro_sequence (const char *regexp)
{
const char *msg;
if (! regexp)
 regexp = DEFAULT_MACRO_SEQUENCE;
else if (regexp[0] == '\0')
```

```
{
  macro_sequence_inuse = false;
  return;
 }
msg = re_compile_pattern (regexp, strlen (regexp), &macro_sequence_buf);
if (msg != NULL)
 {
  M4ERROR ((EXIT_FAILURE, 0,
       "--warn-macro-sequence: bad regular expression `%s': %s",
       regexp, msg));
 }
re_set_registers (&macro_sequence_buf, &macro_sequence_regs,
         macro_sequence_regs.num_regs,
         macro_sequence_regs.start, macro_sequence_regs.end);
macro_sequence_inuse = true;
}
/*_____
| Free dynamic memory utilized by the macro sequence regular |
expression during the define builtin.
`_____*/
void
free_macro_sequence (void)
{
free_pattern_buffer (&macro_sequence_buf, &macro_sequence_regs);
}
/*_____
| Define a predefined or user-defined macro, with name NAME, and |
| expansion TEXT. MODE destinguishes 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 \&\& \arg c < \min)
  {
  if (!suppress_warnings)
   M4ERROR ((warning_status, 0,
         "Warning: too few arguments to builtin `%s'",
         TOKEN_DATA_TEXT (name)));
  isbad = true;
  }
else if (max > 0 && argc > max && !suppress_warnings)
 M4ERROR ((warning_status, 0,
       "Warning: excess arguments to builtin `%s' ignored",
       TOKEN_DATA_TEXT (name)));
```

return isbad;

}

```
/*_____
| The function numeric_arg () converts ARG to an int pointed to by |
VALUEP. If the conversion fails, print error message for macro
| MACRO. Return true iff conversion succeeds.
`_____*/
static bool
numeric_arg (token_data *macro, const char *arg, int *valuep)
{
char *endp;
if (*arg == '\0')
 {
  *valuep = 0;
  M4ERROR ((warning_status, 0,
       "empty string treated as 0 in builtin `%s'",
       TOKEN_DATA_TEXT (macro)));
 }
else
 {
  errno = 0;
  *valuep = strtol (arg, &endp, 10);
  if (*endp != \0')
   {
    M4ERROR ((warning_status, 0,
         "non-numeric argument to builtin `%s'",
         TOKEN_DATA_TEXT (macro)));
    return false;
   }
  if (isspace (to_uchar (*arg)))
   M4ERROR ((warning_status, 0,
        "leading whitespace ignored in builtin `%s'",
        TOKEN_DATA_TEXT (macro)));
  else if (errno == ERANGE)
   M4ERROR ((warning_status, 0,
        "numeric overflow detected in builtin `%s'",
        TOKEN_DATA_TEXT (macro)));
 }
return true;
}
/*-----.
| The function ntoa () converts VALUE to a signed ASCII |
representation in radix RADIX.
                                    `-----*/
```

```
/* Digits for number to ASCII conversions. */
static char const digits[] = "0123456789abcdefghijklmnopqrstuvwxyz";
const char *
ntoa (int32_t value, int radix)
{
bool negative;
uint32_t uvalue;
static char str[256];
char *s = &str[sizeof str];
*--s = '\0';
if (value < 0)
 {
  negative = true;
  uvalue = -(uint32_t) value;
  }
else
  {
  negative = false;
  uvalue = (uint32_t) value;
  }
do
  {
   *--s = digits[uvalue % radix];
  uvalue /= radix;
  }
while (uvalue > 0);
if (negative)
 *--s = '-';
return s;
}
/*-----.
| Format an int VAL, and stuff it into an obstack OBS. Used for |
| macros expanding to numbers.
                                                `_____*/
static void
shipout_int (struct obstack *obs, int val)
{
const char *s;
s = ntoa ((int32_t) val, 10);
obstack_grow (obs, s, strlen (s));
```

}

```
/*_____
| Print ARGC arguments from the table ARGV to obstack OBS, separated |
| by SEP, and quoted by the current quotes if QUOTED is true.
                                                        `_____*/
static void
dump_args (struct obstack *obs, int argc, token_data **argv,
     const char *sep, bool quoted)
{
int i;
size_t len = strlen (sep);
for (i = 1; i < argc; i++)
 {
  if (i > 1)
   obstack grow (obs, sep, len);
  if (quoted)
   obstack_grow (obs, lquote.string, lquote.length);
  obstack grow (obs, TOKEN DATA TEXT (argv[i]),
          strlen (TOKEN_DATA_TEXT (argv[i])));
  if (quoted)
   obstack_grow (obs, rquote.string, rquote.length);
  }
}
```

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

void m4\_MACRONAME (struct obstack \*obs, int argc, char \*argv[]);

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

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

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

static void

```
define_macro (int argc, token_data **argv, symbol_lookup mode)
{
const builtin *bp;
if (bad_argc (argv[0], argc, 2, 3))
 return;
if (TOKEN_DATA_TYPE (argv[1]) != TOKEN_TEXT)
 {
  M4ERROR ((warning_status, 0,
        "Warning: %s: invalid macro name ignored", ARG (0)));
  return;
 }
if (argc == 2)
 {
  define_user_macro (ARG (1), "", mode);
  return;
 }
switch (TOKEN_DATA_TYPE (argv[2]))
 {
 case TOKEN_TEXT:
  define_user_macro (ARG (1), ARG (2), mode);
  break;
 case TOKEN FUNC:
  bp = find_builtin_by_addr (TOKEN_DATA_FUNC (argv[2]));
  if (bp == NULL)
   return;
  else
   define_builtin (ARG (1), bp, mode);
  break;
 case TOKEN_VOID:
 default:
  M4ERROR ((warning_status, 0,
        "INTERNAL ERROR: bad token data type in define_macro ()"));
  abort ();
 }
}
static void
m4_define (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
define_macro (argc, argv, SYMBOL_INSERT);
}
```

```
static void
m4_undefine (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
int i;
if (bad_argc (argv[0], argc, 2, -1))
 return;
for (i = 1; i < argc; i++)
 lookup_symbol (ARG (i), SYMBOL_DELETE);
}
static void
m4_pushdef (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
define_macro (argc, argv, SYMBOL_PUSHDEF);
}
static void
m4_popdef (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
int i;
if (bad_argc (argv[0], argc, 2, -1))
 return;
for (i = 1; i < argc; i++)
 lookup_symbol (ARG (i), SYMBOL_POPDEF);
}
/*-----.
| Conditionals of m4. |
`_____*/
static void
m4_ifdef (struct obstack *obs, int argc, token_data **argv)
{
symbol *s;
const char *result;
if (bad_argc (argv[0], argc, 3, 4))
 return;
s = lookup_symbol (ARG (1), SYMBOL_LOOKUP);
if (s != NULL && SYMBOL_TYPE (s) != TOKEN_VOID)
 result = ARG (2);
else if (argc >= 4)
 result = ARG (3);
else
 result = NULL;
if (result != NULL)
```

```
obstack_grow (obs, result, strlen (result));
}
static void
m4_ifelse (struct obstack *obs, int argc, token_data **argv)
{
const char *result;
token_data *me = argv[0];
if (argc == 2)
 return;
if (bad_argc (me, argc, 4, -1))
 return;
else
 /* Diagnose excess arguments if 5, 8, 11, etc., actual arguments. */
 bad_argc (me, (argc + 2) % 3, -1, 1);
argv++;
argc--;
result = NULL;
while (result == NULL)
 if (STREQ (ARG (0), ARG (1)))
   result = ARG (2);
 else
   switch (argc)
    {
    case 3:
     return;
    case 4:
    case 5:
     result = ARG (3);
     break;
    default:
     argc -= 3;
     argv += 3;
    }
obstack_grow (obs, result, strlen (result));
}
/*_____
| The function dump_symbol () is for use by "dumpdef". It builds up |
```

| a table of all defined, un-shadowed, symbols. `\_\_\_\_\_\*/ /\* The structure dump\_symbol\_data is used to pass the information needed from call to call to dump\_symbol. \*/ struct dump\_symbol\_data { struct obstack \*obs; /\* obstack for table \*/ symbol \*\*base; /\* base of table \*/ int size; /\* size of table \*/ }; static void dump\_symbol (symbol \*sym, void \*arg) { struct dump\_symbol\_data \*data = (struct dump\_symbol\_data \*) arg; if (!SYMBOL\_SHADOWED (sym) && SYMBOL\_TYPE (sym) != TOKEN\_VOID) { obstack\_blank (data->obs, sizeof (symbol \*)); data->base = (symbol \*\*) obstack base (data->obs); data->base[data->size++] = sym; } } /\*-----. gort 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;

```
data.obs = obs;
data.base = (symbol **) obstack_base (obs);
data.size = 0;
if (argc == 1)
 {
  hack_all_symbols (dump_symbol, &data);
  }
else
 {
  for (i = 1; i < argc; i++)
    {
     s = lookup_symbol (TOKEN_DATA_TEXT (argv[i]), SYMBOL_LOOKUP);
     if (s != NULL && SYMBOL_TYPE (s) != TOKEN_VOID)
      dump_symbol (s, &data);
     else
      M4ERROR ((warning_status, 0,
           "undefined macro `%s'", TOKEN_DATA_TEXT (argv[i])));
    }
  }
/* Make table of symbols invisible to expand_macro (). */
obstack_finish (obs);
qsort (data.base, data.size, sizeof (symbol *), dumpdef_cmp);
for (; data.size > 0; --data.size, data.base++)
  {
  DEBUG_PRINT1 ("%s:\t", SYMBOL_NAME (data.base[0]));
  switch (SYMBOL_TYPE (data.base[0]))
    {
   case TOKEN_TEXT:
    if (debug_level & DEBUG_TRACE_QUOTE)
      DEBUG_PRINT3 ("%s%s%s\n",
              lquote.string, SYMBOL_TEXT (data.base[0]), rquote.string);
     else
      DEBUG_PRINT1 ("%s\n", SYMBOL_TEXT (data.base[0]));
     break;
   case TOKEN_FUNC:
     bp = find_builtin_by_addr (SYMBOL_FUNC (data.base[0]));
     if (bp == NULL)
      {
       M4ERROR ((warning_status, 0, "\
INTERNAL ERROR: builtin not found in builtin table"));
```

```
abort ();
      }
     DEBUG_PRINT1 ("<%s>\n", bp->name);
     break;
   case TOKEN_VOID:
   default:
     M4ERROR ((warning_status, 0,
          "INTERNAL ERROR: bad token data type in m4_dumpdef ()"));
     abort ();
     break;
    }
  }
}
/*_____.
The builtin "builtin" allows calls to builtin macros, even if
their definition has been overridden or shadowed. It is thus
possible to redefine builtins, and still access their original
| definition. This macro is not available in compatibility mode. |
`_____*/
static void
m4_builtin (struct obstack *obs, int argc, token_data **argv)
{
const builtin *bp;
const char *name;
if (bad_argc (argv[0], argc, 2, -1))
 return;
if (TOKEN_DATA_TYPE (argv[1]) != TOKEN_TEXT)
  {
  M4ERROR ((warning_status, 0,
        "Warning: %s: invalid macro name ignored", ARG (0)));
  return;
  }
name = ARG (1);
bp = find_builtin_by_name (name);
if (bp->func == m4_placeholder)
 M4ERROR ((warning_status, 0,
       "undefined builtin `%s'", name));
else
 {
  int i;
  if (! bp->groks_macro_args)
   for (i = 2; i < argc; i++)
     if (TOKEN_DATA_TYPE (argv[i]) != TOKEN_TEXT)
```

```
{
       TOKEN_DATA_TYPE (argv[i]) = TOKEN_TEXT;
       TOKEN_DATA_TEXT (argv[i]) = (char *) "";
      }
  bp->func (obs, \operatorname{argc} - 1, \operatorname{argv} + 1);
  }
}
/*_____
| The builtin "indir" allows indirect calls to macros, even if their |
| name is not a proper macro name. It is thus possible to define |
| macros with ill-formed names for internal use in larger macro
| packages. This macro is not available in compatibility mode.
`_____*/
static void
m4_indir (struct obstack *obs, int argc, token_data **argv)
{
symbol *s;
const char *name;
if (bad_argc (argv[0], argc, 2, -1))
 return;
if (TOKEN_DATA_TYPE (argv[1]) != TOKEN_TEXT)
 {
  M4ERROR ((warning_status, 0,
        "Warning: %s: invalid macro name ignored", ARG (0)));
  return;
  }
name = ARG (1);
s = lookup_symbol (name, SYMBOL_LOOKUP);
if (s == NULL || SYMBOL_TYPE (s) == TOKEN_VOID)
 M4ERROR ((warning_status, 0,
       "undefined macro `%s'", name));
else
 {
  int i;
  if (! SYMBOL_MACRO_ARGS (s))
   for (i = 2; i < argc; i++)
     if (TOKEN_DATA_TYPE (argv[i]) != TOKEN_TEXT)
      {
       TOKEN_DATA_TYPE (argv[i]) = TOKEN_TEXT;
       TOKEN_DATA_TEXT (argv[i]) = (char *) "";
      }
  call_macro (s, argc - 1, argv + 1, obs);
  }
}
```

```
| The macro "defn" returns the quoted definition of the macro named |
by the first argument. If the macro is builtin, it will push a
| special macro-definition token on the input stack.
`_____*/
static void
m4_defn (struct obstack *obs, int argc, token_data **argv)
{
symbol *s;
builtin_func *b;
unsigned int i;
if (bad_argc (argv[0], argc, 2, -1))
 return:
assert (0 < argc && argc <= INT_MAX);
for (i = 1; i < (unsigned) argc; i++)
  {
   const char *arg = ARG((int) i);
   s = lookup_symbol (arg, SYMBOL_LOOKUP);
   if (s == NULL)
    continue;
   switch (SYMBOL_TYPE (s))
    {
    case TOKEN_TEXT:
     obstack_grow (obs, lquote.string, lquote.length);
     obstack_grow (obs, SYMBOL_TEXT (s), strlen (SYMBOL_TEXT (s)));
     obstack_grow (obs, rquote.string, rquote.length);
     break;
    case TOKEN_FUNC:
     b = SYMBOL_FUNC (s);
     if (b == m4_placeholder)
      M4ERROR ((warning_status, 0, "\
builtin `%s' requested by frozen file is not supported", arg));
     else if (argc != 2)
      M4ERROR ((warning_status, 0,
            "Warning: cannot concatenate builtin `%s'",
            arg));
     else
      push_macro (b);
     break;
    case TOKEN_VOID:
     /* Nothing to do for traced but undefined macro. */
```

```
break;
    default:
     M4ERROR ((warning_status, 0,
          "INTERNAL ERROR: bad symbol type in m4_defn ()"));
     abort ();
    }
  }
}
/*_____
| This section contains macros to handle the builtins "syscmd", |
| "esyscmd" and "sysval". "esyscmd" is GNU specific.
                                                       `_____*/
/* Exit code from last "syscmd" command. */
static int sysval;
static void
m4_syscmd (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
const char *cmd = ARG (1);
int status;
int sig_status;
const char *prog_args[4] = { "sh", "-c" };
if (bad_argc (argv[0], argc, 2, 2) || !*cmd)
 {
  /* The empty command is successful. */
  sysval = 0;
  return;
  }
debug_flush_files ();
#if W32_NATIVE
if (strstr (SYSCMD_SHELL, "cmd"))
 {
   prog_args[0] = "cmd";
  prog_args[1] = "/c";
  }
#endif
prog_args[2] = cmd;
errno = 0;
status = execute (ARG (0), SYSCMD_SHELL, (char **) prog_args, false,
          false, false, false, true, false, &sig_status);
if (sig_status)
 {
   assert (status == 127);
   sysval = sig_status << 8;</pre>
```

```
}
else
  {
  if (status == 127 \&\& errno)
    M4ERROR ((warning_status, errno, "cannot run command `%s'", cmd));
  sysval = status;
  }
}
static void
m4_esyscmd (struct obstack *obs, int argc, token_data **argv)
{
const char *cmd = ARG (1);
const char *prog_args[4] = { "sh", "-c" };
pid_t child;
int fd;
FILE *pin;
int status;
int sig_status;
if (bad_argc (argv[0], argc, 2, 2) || !*cmd)
 {
  /* The empty command is successful. */
  sysval = 0;
  return;
  }
debug_flush_files ();
#if W32_NATIVE
if (strstr (SYSCMD_SHELL, "cmd"))
 {
  prog_args[0] = "cmd";
  prog_args[1] = "/c";
  }
#endif
prog_args[2] = cmd;
errno = 0;
child = create_pipe_in (ARG (0), SYSCMD_SHELL, (char **) prog_args,
               NULL, false, true, false, &fd);
if (child == -1)
  {
  M4ERROR ((warning_status, errno, "cannot run command `%s'", cmd));
   sysval = 127;
   return;
  }
pin = fdopen (fd, "r");
if (pin == NULL)
 {
```

```
M4ERROR ((warning_status, errno, "cannot run command `%s'", cmd));
   sysval = 127;
   close (fd);
  return;
  }
while (1)
  {
   size_t avail = obstack_room (obs);
   size_t len;
   if (!avail)
    {
     int ch = getc (pin);
     if (ch == EOF)
      break;
     obstack_1 grow (obs, ch);
     continue;
    }
   len = fread (obstack_next_free (obs), 1, avail, pin);
   if (len <= 0)
   break;
  obstack_blank_fast (obs, len);
  }
if (ferror (pin) || fclose (pin))
 M4ERROR ((EXIT_FAILURE, errno, "cannot read pipe"));
errno = 0;
status = wait_subprocess (child, ARG (0), false, true, true, false,
                &sig_status);
if (sig_status)
 {
  assert (status == 127);
   sysval = sig_status << 8;</pre>
  }
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 \parallel 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_1 grow (obs, '0');
   while (value-- != 0)
    obstack_1 grow (obs, '1');
   obstack_1grow (obs, '\0');
   return;
  }
s = ntoa (value, radix);
if (*s == '-')
 {
   obstack_1grow (obs, '-');
   s++;
  }
for (\min -= \text{strlen}(s); --\min >= 0;)
 obstack_1grow (obs, '0');
obstack_grow (obs, s, strlen (s));
}
static void
m4_incr (struct obstack *obs, int argc, token_data **argv)
{
int value;
if (bad_argc (argv[0], argc, 2, 2))
 return;
if (!numeric_arg (argv[0], ARG (1), &value))
 return;
shipout_int (obs, value + 1);
}
static void
m4_decr (struct obstack *obs, int argc, token_data **argv)
{
int value;
if (bad_argc (argv[0], argc, 2, 2))
 return;
if (!numeric_arg (argv[0], ARG (1), &value))
 return;
```

```
shipout_int (obs, value - 1);
}
/* This section contains the macros "divert", "undivert" and "divnum" for
 handling diversion. The utility functions used lives in output.c. */
/*_____.
Divert further output to the diversion given by ARGV[1]. Out of
range means discard further output.
`_____*/
static void
m4_divert (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
int i = 0;
if (bad_argc (argv[0], argc, 1, 2))
 return;
if (argc >= 2 && !numeric_arg (argv[0], ARG (1), &i))
 return;
make_diversion (i);
}
/*-----.
| Expand to the current diversion number, -1 if none. |
`_____*/
static void
m4_divnum (struct obstack *obs, int argc, token_data **argv)
{
if (bad_argc (argv[0], argc, 1, 1))
 return;
shipout_int (obs, current_diversion);
}
/*-----
| Bring back the diversion given by the argument list. If none is |
| specified, bring back all diversions. GNU specific is the option |
| of undiverting named files, by passing a non-numeric argument to |
undivert ().
                                    ×_____
                                 .....*/
static void
m4_undivert (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
```

```
int i, file;
```

```
FILE *fp;
char *endp;
if (argc == 1)
 undivert_all ();
else
 for (i = 1; i < argc; i++)
   {
    file = strtol (ARG (i), &endp, 10);
    if (*endp == \0' && !isspace (to_uchar (*ARG (i))))
     insert_diversion (file);
    else if (no_gnu_extensions)
     M4ERROR ((warning_status, 0,
           "non-numeric argument to builtin `%s'", ARG (0)));
    else
     {
      fp = m4_path_search (ARG (i), NULL);
      if (fp != NULL)
       {
        insert_file (fp);
        if (fclose (fp) == EOF)
         M4ERROR ((warning_status, errno,
               "error undiverting `%s'", ARG (i)));
       }
      else
       M4ERROR ((warning_status, errno,
             "cannot undivert `%s'", ARG (i)));
     }
   }
}
/* This section contains various macros, which does not fall into any
 specific group. These are "dnl", "shift", "changequote", "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;
```

```
}
```

/\*\_\_\_\_\_.

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

static void

```
#ifdef ENABLE_CHANGEWORD
```

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

/\*\_\_\_\_\_.

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

set\_word\_regexp (TOKEN\_DATA\_TEXT (argv[1]));
}

```
#endif /* ENABLE_CHANGEWORD */
```

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

/\*\_\_\_\_\_

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

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

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

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

free (name);

}

#### /\*-----

| Include a file, complaining in case of errors. |

`\_\_\_\_\_\*/

static void

m4\_include (struct obstack \*obs M4\_GNUC\_UNUSED, int argc, token\_data \*\*argv)
{
 include (argc, argv, false);
}
/\*------.

| Include a file, ignoring errors. |

static void

```
m4_sinclude (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
    include (argc, argv, true);
}
/* More miscellaneous builtins -- "maketemp", "errprint", "__file__",
    "__line__", and "__program__". The last three are GNU specific. */
/*------.
| Use the first argument as at template for a temporary file name. |
```

`\_\_\_\_\_\*/

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

int fd; size\_t i; char \*name;

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

break;

```
obstack_grow0 (obs, "XXXXXX", 6 - i);
name = (char *) obstack_base (obs) + lquote.length;
errno = 0;
fd = mkstemp (name);
if (fd < 0)
 {
   M4ERROR ((0, errno, "%s: cannot create tempfile `%s'", me, pattern));
  obstack_free (obs, obstack_finish (obs));
  }
else
  {
   close (fd);
   /* Remove NUL, then finish quote. */
   obstack_blank (obs, -1);
   obstack_grow (obs, rquote.string, rquote.length);
  }
}
static void
m4_maketemp (struct obstack *obs, int argc, token_data **argv)
{
if (bad_argc (argv[0], argc, 2, 2))
 return;
if (no_gnu_extensions)
 {
   /* POSIX states "any trailing 'X' characters [are] replaced with
     the current process ID as a string", without referencing the
     file system. Horribly insecure, but we have to do it when we
     are in traditional mode.
     For reference, Solaris m4 does:
      maketemp() \rightarrow 
      maketemp(X) \rightarrow X'
      maketemp(XX) \rightarrow Xn', where n is last digit of pid
      maketemp(XXXXXXX) -> `X00nnnnn', where nnnnn is 16-bit pid
   */
   const char *str = ARG (1);
   int len = strlen (str);
   int i;
   int len2;
   M4ERROR ((warning_status, 0, "recommend using mkstemp instead"));
   for (i = len; i > 1; i--)
    if (str[i - 1] != 'X')
     break;
   obstack_grow (obs, str, i);
   str = ntoa ((int32_t) getpid (), 10);
```

```
len2 = strlen (str);
if (len2 > len - i)
obstack_grow0 (obs, str + len2 - (len - i), len - i);
else
{
    while (i++ < len - len2)
        obstack_1grow (obs, '0');
        obstack_grow0 (obs, str, len2);
    }
}
else
mkstemp_helper (obs, ARG (0), ARG (1), strlen (ARG (1)));
}
```

```
static void
m4_mkstemp (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 2, 2))
      return;
    mkstemp_helper (obs, ARG (0), ARG (1), strlen (ARG (1)));
}
```

```
/*_____.
```

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

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

```
static void
```

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

```
static void
m4___line__ (struct obstack *obs, int argc, token_data **argv)
{
if (bad_argc (argv[0], argc, 1, 1))
 return;
shipout_int (obs, current_line);
}
static void
m4 program (struct obstack *obs, int argc, token data **argv)
{
if (bad_argc (argv[0], argc, 1, 1))
 return:
obstack_grow (obs, lquote.string, lquote.length);
obstack_grow (obs, program_name, strlen (program_name));
obstack_grow (obs, rquote.string, rquote.length);
}
/* This section contains various macros for exiting, saving input until
 EOF is seen, and tracing macro calls. That is: "m4exit", "m4wrap",
 "traceon" and "traceoff". */
/*_____
| Exit immediately, with exit status specified by the first |
| argument, or 0 if no arguments are present.
`_____*/
static void M4_GNUC_NORETURN
m4_m4exit (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
int exit_code = EXIT_SUCCESS;
/* Warn on bad arguments, but still exit. */
bad_argc (argv[0], argc, 1, 2);
if (\operatorname{argc} \ge 2 \&\& !\operatorname{numeric}_\operatorname{arg} (\operatorname{argv}[0], ARG (1), \&\operatorname{exit}_\operatorname{code}))
 exit_code = EXIT_FAILURE;
if (exit_code < 0 \parallel exit_code > 255)
  {
   M4ERROR ((warning_status, 0,
         "exit status out of range: `%d'", exit_code));
  exit_code = EXIT_FAILURE;
  }
/* Change debug stream back to stderr, to force flushing debug stream and
  detect any errors it might have encountered. */
debug_set_output (NULL);
debug_flush_files ();
if (exit_code == EXIT_SUCCESS && retcode != EXIT_SUCCESS)
 exit_code = retcode;
```

```
/* Propagate non-zero status to atexit handlers. */
if (exit_code != EXIT_SUCCESS)
    exit_failure = exit_code;
exit (exit_code);
}
```

/\*-----.

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

static void

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

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

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

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

static void set\_trace (symbol \*sym, void \*data) { SYMBOL\_TRACED (sym) = data != NULL; /\* Remove placeholder from table if macro is undefined and untraced. \*/ if (SYMBOL\_TYPE (sym) == TOKEN\_VOID && data == NULL) lookup\_symbol (SYMBOL\_NAME (sym), SYMBOL\_POPDEF); } static void m4\_traceon (struct obstack \*obs, int argc, token\_data \*\*argv) {

```
symbol *s;
```

```
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))
```

int i;

```
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 |
```

 $\mid$  argument is taken as a file name, with no arguments, revert to stderr.  $\mid$ 

```
.----*/
static void
m4_debugfile (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)
{
if (bad_argc (argv[0], argc, 1, 2))
 return;
if (argc == 1)
 debug_set_output (NULL);
else if (!debug_set_output (ARG (1)))
 M4ERROR ((warning_status, errno,
       "cannot set debug file `%s'", ARG (1)));
}
/* This section contains text processing macros: "len", "index",
 "substr", "translit", "format", "regexp" and "patsubst". The last
 three are GNU specific. */
/*_____
| Expand to the length of the first argument. |
`_____*/
static void
m4_len (struct obstack *obs, int argc, token_data **argv)
{
if (bad_argc (argv[0], argc, 2, 2))
 return;
shipout_int (obs, strlen (ARG (1)));
}
/*_____.
| The macro expands to the first index of the second argument in the |
first argument.
                                        `-----*/
static void
m4_index (struct obstack *obs, int argc, token_data **argv)
{
const char *haystack;
const char *result;
int retval;
if (bad_argc (argv[0], argc, 3, 3))
 {
  /* builtin(`index') is blank, but index(`abc') is 0. */
  if (argc == 2)
   shipout_int (obs, 0);
```

```
return;
  }
haystack = ARG (1);
result = strstr (haystack, ARG (2));
retval = result ? result - haystack : -1;
shipout_int (obs, retval);
}
/*_____
| The macro "substr" extracts substrings from the first argument, |
| starting from the index given by the second argument, extending |
| for a length given by the third argument. If the third argument |
| is missing, the substring extends to the end of the first
argument.
`-----*/
static void
m4_substr (struct obstack *obs, int argc, token_data **argv)
{
int start = 0;
int length, avail;
if (bad_argc (argv[0], argc, 3, 4))
  {
   /* builtin(`substr') is blank, but substr(`abc') is abc. */
   if (argc == 2)
    obstack_grow (obs, ARG (1), strlen (ARG (1)));
   return;
  }
length = avail = strlen (ARG (1));
if (!numeric_arg (argv[0], ARG (2), &start))
  return;
if (argc >= 4 && !numeric_arg (argv[0], ARG (3), &length))
  return;
if (\text{start} < 0 \parallel \text{length} \le 0 \parallel \text{start} \ge \text{avail})
  return;
if (start + length > avail)
  length = avail - start;
obstack_grow (obs, ARG (1) + start, length);
}
```

```
      | For "translit", ranges are allowed in the second and third
      |

      | argument. They are expanded in the following function, and the
      |

      | expanded strings, without any ranges left, are used to translate |
      |

      | the characters of the first argument. A single - (dash) can be
      |

      | included in the strings by being the first or the last character |
      |

      | in the string. If the first character in a range is after the
      |

      | first in the character set, the range is made backwards, thus 9-0 |
      |

      | is the string 9876543210.
      |
```

```
static const char *
expand_ranges (const char *s, struct obstack *obs)
{
    unsigned char from;
    unsigned char to;
    for (from = '\0'; *s != '\0'; from = to_uchar (*s++))
```

```
{
  if (*s == '-' && from != '\0')
    {
     to = to_uchar (*++s);
     if (to == '\0')
       {
        /* trailing dash */
        obstack_1grow (obs, '-');
        break;
       }
     else if (from <= to)
       {
        while (from++ < to)
         obstack_1grow (obs, from);
       }
     else
       {
        while (--from >= to)
         obstack_1grow (obs, from);
       }
    }
   else
    obstack_1grow (obs, *s);
  }
obstack_1 grow (obs, '\0');
return (char *) obstack_finish (obs);
}
/*
```

| The macro "translit" translates all characters in the first| argument, which are present in the second argument, into the

| corresponding character from the third argument. If the third |
| argument is shorter than the second, the extra characters in the |
| second argument are deleted from the first. |
`-----\*/

```
static void
m4 translit (struct obstack *obs, int argc, token data **argv)
{
const char *data = ARG (1);
const char *from = ARG (2);
const char *to;
char map[UCHAR_MAX + 1];
char found[UCHAR_MAX + 1];
unsigned char ch;
if (bad_argc (argv[0], argc, 3, 4) || !*data || !*from)
 {
   /* builtin(`translit') is blank, but translit(`abc') is abc. */
  if (2 <= argc)
    obstack_grow (obs, data, strlen (data));
  return;
  }
to = ARG (3);
if (strchr (to, '-') != NULL)
 {
   to = expand_ranges (to, obs);
   assert (to && *to);
  }
/* If there are only one or two bytes to replace, it is faster to
  use memchr2. Using expand_ranges does nothing unless there are
  at least three bytes. */
if (!from[1] || !from[2])
  {
   const char *p;
   size_t len = strlen (data);
   while ((p = (char *) memchr2 (data, from[0], from[1], len)))
    {
     obstack_grow (obs, data, p - data);
     len -= p - data;
     if (!len)
      return;
     data = p + 1;
     len--;
     if (*p == from[0] && to[0])
      obstack_1grow (obs, to[0]);
```

else if (\*p == from[1] && to[0] && to[1])

```
obstack_1grow (obs, to[1]);
    }
  obstack_grow (obs, data, len);
  return;
 }
if (strchr (from, '-') != NULL)
 {
  from = expand_ranges (from, obs);
  assert (from && *from);
 }
/* Calling strchr(from) for each character in data is quadratic,
 since both strings can be arbitrarily long. Instead, create a
 from-to mapping in one pass of from, then use that map in one
 pass of data, for linear behavior. Traditional behavior is that
 only the first instance of a character in from is consulted,
 hence the found map. */
memset (map, 0, sizeof map);
memset (found, 0, sizeof found);
for (; (ch = *from) != '\0'; from++)
 {
  if (! found[ch])
   {
    found[ch] = 1;
    map[ch] = *to;
    }
  if (*to != '\0')
   to++;
 }
for (data = ARG (1); (ch = *data) != \sqrt{0}; data++)
 {
  if (! found[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) {

obstack\_1grow (obs, ch);

else if (map[ch])

```
if (bad_argc (argv[0], argc, 2, -1))
 return;
expand_format (obs, argc - 1, argv + 1);
}
/*______
| Function to perform substitution by regular expressions. Used by |
| the builtins regexp and patsubst. The changed text is placed on |
| the obstack. The substitution is REPL, with \& substituted by |
| this part of VICTIM matched by the last whole regular expression, |
| taken from REGS[0], and N substituted by the text matched by the |
| Nth parenthesized sub-expression, taken from REGS[N].
`_____*/
static int substitute_warned = 0;
static void
substitute (struct obstack *obs, const char *victim, const char *repl,
      struct re_registers *regs)
{
int ch;
__re_size_t ind;
while (1)
 {
   const char *backslash = strchr (repl, '\\');
   if (!backslash)
    {
     obstack_grow (obs, repl, strlen (repl));
     return;
    }
   obstack_grow (obs, repl, backslash - repl);
   repl = backslash;
   ch = *+repl;
   switch (ch)
    {
    case '0':
     if (!substitute_warned)
      {
       M4ERROR ((warning_status, 0, "\
Warning: \\0 will disappear, use \\& instead in replacements"));
       substitute_warned = 1;
      }
     /* Fall through. */
    case '&':
     obstack_grow (obs, victim + regs->start[0],
             regs->end[0] - regs->start[0]);
     repl++;
```

break;

```
case '1': case '2': case '3': case '4': case '5': case '6':
    case '7': case '8': case '9':
     ind = ch = 0';
     if (regs->num_regs - 1 <= ind)
      M4ERROR ((warning_status, 0,
            "Warning: sub-expression %d not present", ch));
     else if (regs->end[ch] > 0)
      obstack_grow (obs, victim + regs->start[ch],
              regs->end[ch] - regs->start[ch]);
     repl++;
     break;
    case '\0':
     M4ERROR ((warning_status, 0,
           "Warning: trailing \\ ignored in replacement"));
     return;
    default:
     obstack_1 grow (obs, ch);
     repl++;
     break;
    }
  }
}
/*_____.
| Initialize regular expression variables. |
`_____*/
void
init_pattern_buffer (struct re_pattern_buffer *buf, struct re_registers *regs)
{
buf->translate = NULL;
buf->fastmap = NULL;
buf->buffer = NULL;
buf->allocated = 0;
if (regs)
 {
  regs->start = NULL;
  regs->end = NULL;
  }
}
/*
| Regular expression version of index. Given two arguments, expand |
```

| in the first. Expand to -1 if here is no match. Given a third
| argument, it changes the expansion to this argument.
`-----\*/

static void

```
m4_regexp (struct obstack *obs, int argc, token_data **argv)
{
const char *victim;
                          /* first argument */
const char *regexp;
                          /* regular expression */
const char *repl;
                        /* replacement string */
struct re_pattern_buffer buf; /* compiled regular expression */
struct re_registers regs; /* for subexpression matches */
const char *msg;
                         /* error message from re_compile_pattern */
int startpos;
                      /* start position of match */
int length;
                      /* length of first argument */
if (bad_argc (argv[0], argc, 3, 4))
 {
  /* builtin(`regexp') is blank, but regexp(`abc') is 0. */
  if (argc == 2)
    shipout_int (obs, 0);
  return;
  }
victim = TOKEN_DATA_TEXT (argv[1]);
regexp = TOKEN_DATA_TEXT (argv[2]);
init_pattern_buffer (&buf, &regs);
msg = re_compile_pattern (regexp, strlen (regexp), &buf);
if (msg != NULL)
  {
  M4ERROR ((warning_status, 0,
         "bad regular expression: `%s': %s", regexp, msg));
  free_pattern_buffer (&buf, &regs);
  return;
  }
length = strlen (victim);
/* Avoid overhead of allocating regs if we won't use it. */
startpos = re_search (&buf, victim, length, 0, length,
              argc == 3 ? NULL : &regs);
if (startpos = -2)
 M4ERROR ((warning_status, 0,
        "error matching regular expression `%s'", regexp));
```

else if (argc == 3)

```
shipout_int (obs, startpos);
else if (startpos \geq 0)
  {
   repl = TOKEN_DATA_TEXT (argv[3]);
   substitute (obs, victim, repl, &regs);
  }
free_pattern_buffer (&buf, &regs);
}
/*_____.
Substitute all matches of a regexp occuring 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 */
                      /* start position of match */
int matchpos;
int offset;
                    /* current match offset */
                    /* length of first argument */
int length;
if (bad_argc (argv[0], argc, 3, 4))
  {
   /* builtin(`patsubst') is blank, but patsubst(`abc') is abc. */
  if (argc == 2)
    obstack_grow (obs, ARG (1), strlen (ARG (1)));
  return;
  }
regexp = TOKEN_DATA_TEXT (argv[2]);
init_pattern_buffer (&buf, &regs);
msg = re_compile_pattern (regexp, strlen (regexp), &buf);
if (msg != NULL)
  {
   M4ERROR ((warning_status, 0,
        "bad regular expression `%s': %s", regexp, msg));
   free (buf.buffer);
```

```
return;
 }
victim = TOKEN_DATA_TEXT (argv[1]);
length = strlen (victim);
offset = 0;
while (offset <= length)
 {
  matchpos = re_search (&buf, victim, length,
                offset, length - offset, &regs);
  if (matchpos < 0)
   {
    /* Match failed -- either error or there is no match in the
       rest of the string, in which case the rest of the string is
       copied verbatim. */
    if (matchpos == -2)
      M4ERROR ((warning_status, 0,
            "error matching regular expression `%s'", regexp));
     else if (offset < length)
      obstack_grow (obs, victim + offset, length - offset);
    break;
   }
  /* Copy the part of the string that was skipped by re_search (). */
  if (matchpos > offset)
   obstack_grow (obs, victim + offset, matchpos - offset);
  /* Handle the part of the string that was covered by the match. */
  substitute (obs, victim, ARG (3), &regs);
  /* Update the offset to the end of the match. If the regexp
    matched a null string, advance offset one more, to avoid
    infinite loops. */
  offset = regs.end[0];
  if (regs.start[0] == regs.end[0])
   obstack_1grow (obs, victim[offset++]);
 }
obstack_1grow (obs, '\0');
free_pattern_buffer (&buf, &regs);
```

}

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

/\*\_\_\_\_\_

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

#### void

m4\_placeholder (struct obstack \*obs M4\_GNUC\_UNUSED, int argc, token\_data \*\*argv)

#### {

M4ERROR ((warning\_status, 0, "\

builtin `%s' requested by frozen file is not supported", ARG (0)));
}

#### /\*-----.

 | This function handles all expansion of user defined and predefined |

 | macros. It is called with an obstack OBS, where the macros |

 | expansion will be placed, as an unfinished object. SYM points to |

 | the macro definition, giving the expansion text. 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;
}
```

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lib/libgss/g\_seal.c lib/libgss/g\_sign.c lib/libgss/g\_store\_cred.c lib/libgss/g\_unseal.c lib/libgss/g\_userok.c lib/libgss/g\_utils.c lib/libgss/gssd\_pname\_to\_uid.c uts/common/gssapi/include/gssapi\_err\_generic.h uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi err generic.et lib/gssapi/mechglue/g\_accept\_sec\_context.c lib/gssapi/mechglue/g\_acquire\_cred.c lib/gssapi/mechglue/g\_canon\_name.c lib/gssapi/mechglue/g\_compare\_name.c lib/gssapi/mechglue/g\_context\_time.c lib/gssapi/mechglue/g\_delete\_sec\_context.c lib/gssapi/mechglue/g\_dsp\_name.c lib/gssapi/mechglue/g\_dsp\_status.c lib/gssapi/mechglue/g\_dup\_name.c lib/gssapi/mechglue/g\_exp\_sec\_context.c lib/gssapi/mechglue/g\_export\_name.c lib/gssapi/mechglue/g\_glue.c lib/gssapi/mechglue/g\_imp\_name.c lib/gssapi/mechglue/g\_imp\_sec\_context.c lib/gssapi/mechglue/g\_init\_sec\_context.c lib/gssapi/mechglue/g\_initialize.c lib/gssapi/mechglue/g\_inquire\_context.c lib/gssapi/mechglue/g\_inquire\_cred.c lib/gssapi/mechglue/g\_inquire\_names.c lib/gssapi/mechglue/g\_process\_context.c lib/gssapi/mechglue/g\_rel\_buffer.c

lib/gssapi/mechglue/g\_rel\_cred.c lib/gssapi/mechglue/g\_rel\_name.c lib/gssapi/mechglue/g\_rel\_oid\_set.c lib/gssapi/mechglue/g\_seal.c lib/gssapi/mechglue/g\_store\_cred.c lib/gssapi/mechglue/g\_unseal.c lib/gssapi/mechglue/g\_userok.c lib/gssapi/mechglue/g\_utils.c lib/gssapi/mechglue/g\_verify.c lib/gssapi/mechglue/gssd\_pname\_to\_uid.c lib/gssapi/mechglue/mglueP.h lib/gssapi/mechglue/oid\_ops.c lib/gssapi/spnego/gssapiP\_spnego.h lib/gssapi/spnego/spnego\_mech.c

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

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

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

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- 58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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# 1.77 ntp/sntp/libopts 4.2.8p10

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- 35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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# 1.81 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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- /\* crypto/aes/aes\_wrap.c \*/
- /\* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
- \* project.
- \* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
- \* size keys (Implemented RFC5649)

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## 1.82 openvmtools 9.4.0 :1280544

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

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

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\* Added @Override annotation to generated Java code where appropriate.

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\* Solaris 10 + Sun Studio fixes.

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\* Slicing support for repeated scalar fields for the Python API.

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\* MS Visual Studio error format option.

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

Brian Olson <brianolson@google.com>

\* gzip/zlib I/O support.

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\* Fixed warnings about generated constructors not explicitly initializing

all fields (only present with certain compiler settings).

\* Added generation of field number constants.

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\* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

\* 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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\* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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\* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

\* Detect whether zlib is new enough in configure script.

\* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

\* Optimize Java serialization code when writing a small message to a stream.

\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

\* Clean up some Java warnings.

\* Fix bug with permanent callbacks that delete themselves when run.

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\* Added CodedInputStream.getTotalBytesRead().

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

William Orr <will@worrbase.com>

\* Fixed detection of sched\_yield on Solaris.

\* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

\* Fixed minor IBM xIC compiler build issues

\* Added atomicops for AIX (POWER)

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\*/

#! /bin/sh

# Configuration validation subroutine script.

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timestamp='2003-08-18'

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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

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

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#

# Calling this script install-sh is preferred over install.sh, to prevent

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

# when there is no Makefile.

#

# This script is compatible with the BSD install script, but was written

# from scratch. It can only install one file at a time, a restriction

# shared with many OS's install programs.

# set DOITPROG to echo to test this script

Classes to support streaming video input (grabbing) and output.

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```
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/**
@file arch.h
@brief Various architecture definitions Speex
*/
```

```
/*
```

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```
@file speex_preprocess.h
@brief Speex preprocessor
```

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

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\*

\* This file is part of the lwIP TCP/IP stack.

\*

\* Author: Adam Dunkels <adam@sics.se>

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

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|--------------------------------------|---------|----------|----------|-----------------|------|--|
|                                      | from    |          | con      | compatible? (1) |      |  |
|                                      |         |          |          |                 |      |  |
| 0.9.0 thru                           | 1.2     | 1991-1   | 1995 CW  | Ί               | yes  |  |
| 1.3 thru 1.                          | 5.2 1.2 | 1995     | -1999 Cl | NRI             | yes  |  |
| 1.6                                  | 1.5.2   | 2000     | CNRI     | no              |      |  |
| 2.0                                  | 1.6     | 2000     | BeOpen   | .com r          | 10   |  |
| 1.6.1                                | 1.6     | 2001     | CNRI     | yes             | (2)  |  |
| 2.1                                  | 2.0+1.6 | .1 2001  | PSF      | no              |      |  |
| 2.0.1                                | 2.0+1.6 | 5.1 2001 | PSF      | ye              | es   |  |
| 2.1.1                                | 2.1+2.0 | 0.1 2001 | PSF      | ye              | es   |  |
| 2.1.2                                | 2.1.1   | 2002     | PSF      | yes             |      |  |
| 2.1.3                                | 2.1.2   | 2002     | PSF      | yes             |      |  |
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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| Release                              | Deriv   | ed Yea   | ır Ow           | vner    | GPL- |
|--------------------------------------|---------|----------|-----------------|---------|------|
|                                      |         | CO       | compatible? (1) |         |      |
|                                      |         |          |                 |         |      |
| 0.9.0 thru                           | 1.2     | 1991-    | 1995 CV         | NI      | yes  |
| 1.3 thru 1.                          | 5.2 1.2 | 1995     | -1999 C         | 'NRI    | yes  |
| 1.6                                  | 1.5.2   | 2000     | CNRI            | no      |      |
| 2.0                                  | 1.6     | 2000     | BeOper          | n.com 1 | 10   |
| 1.6.1                                | 1.6     | 2001     | CNRI            | yes     | (2)  |
| 2.1                                  | 2.0+1.6 | .1 2001  | PSF             | no      |      |
| 2.0.1                                | 2.0+1.6 | 5.1 2001 | PSF             | ye      | es   |
| 2.1.1                                | 2.1+2.0 | 0.1 2001 | PSF             | ye      | es   |
| 2.1.2                                | 2.1.1   | 2002     | PSF             | yes     |      |
| 2.1.3                                | 2.1.2   | 2002     | PSF             | yes     |      |
| 2.2 and above 2.1.1 2001-now PSF yes |         |          |                 |         |      |

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|------------|----------|-------|--------|-------------|---------|
|            |          |       | comp   | atible? (1) |         |
|            |          |       |        |             |         |
| 0.9.0 thru | 1.2      | 1991- | 1995   | CWI         | yes     |
| 1.3 thru 1 | .5.2 1.2 | 1995  | 5-1999 | O CNI       | RI yes  |
| 1.6        | 1.5.2    | 2000  | CN     | IRI         | no      |
| 2.0        | 1.6      | 2000  | BeC    | Open.co     | om no   |
| 1.6.1      | 1.6      | 2001  | CN     | IRI         | yes (2) |
|            |          |       |        |             |         |

| 2.1        | 2.0+1.6.  | 1 2001  | PSF   | no  |     |
|------------|-----------|---------|-------|-----|-----|
| 2.0.1      | 2.0+1.6   | .1 2001 | PSF   | yes |     |
| 2.1.1      | 2.1 + 2.0 | .1 2001 | PSF   | yes |     |
| 2.1.2      | 2.1.1     | 2002    | PSF   | yes |     |
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| 2.2 and ab | ove 2.1.  | 1 2001  | l-now | PSF | yes |

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see 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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| Release   Derived from   Year   Owner               |     |
|-----------------------------------------------------|-----|
| +=====+===+===+===+===+===+===+====+====            | yes |
| 1.3 thru 1.5.2   1.2   1995-1999   CNRI  <br>++++++ | yes |
| 1.6   1.5.2   2000   CNRI   no                      |     |
| 2.0   1.6   2000   BeOpen.com   no                  | o   |
| 1.6.1   1.6   2001   CNRI   no                      |     |
| 2.1   2.0+1.6.1   2001   PSF   no                   |     |
| 2.0.1   2.0+1.6.1   2001   PSF   yes                | s   |
| 2.1.1  2.1+2.0.1  2001  PSF  yes                    |     |

+-----+

| +         | +            | +    | +-    |     | +   | + |
|-----------|--------------|------|-------|-----|-----|---|
| 2.1.2     | 2.1.1        | 2002 | PSF   | yes |     |   |
| +         | +            | +    | +-    |     | +   | + |
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| +         | +            | +    | +-    |     | +   | + |
| 2.2 and a | bove   2.1.1 | 200  | 1-now | PSF | yes |   |
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Mersenne Twister

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

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

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

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

### 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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#### Asynchronous socket services

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Cookie management

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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

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

- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----

The :mod:`xmlrpc.client` module contains the following notice::

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test\_epoll

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Select kqueue

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#### SipHash24

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

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

Solution inspired by code from:

Samuel Neves (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 :file: Python/dtoa.c`, which supplies C functions dtoa and

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zlib

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#### cfuhash

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libmpdec

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/\* From openssh4.3p2 compat/inet\_aton.c \*/

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

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

## 1.111.1 Available under license :

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common\_audio/signal\_processing/spl\_sqrt\_floor.c common\_audio/signal\_processing/spl\_sqrt\_floor\_arm.S

License:

/\*

\* Written by Wilco Dijkstra, 1996. The following email exchange establishes the

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\*

\* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>

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

\* Subject: Re: sqrt routine

\* To: Kevin Ma <kma@google.com>

\* Hi Kevin,

\* Thanks for asking. Those routines are public domain (originally posted to

\* comp.sys.arm a long time ago), so you can use them freely for any purpose.

\* Cheers,

\* Wilco

\*

- \* ----- Original Message -----
- \* From: "Kevin Ma" <kma@google.com>

\* To: <Wilco.Dijkstra@ntlworld.com>

\* Sent: Thursday, June 23, 2011 11:44 PM

- \* Subject: Fwd: sqrt routine
- \* Hi Wilco,
- \* I saw your sqrt routine from several web sites, including
- \* http://www.finesse.demon.co.uk/steven/sqrt.html.
- \* Just wonder if there's any copyright information with your Successive
- \* approximation routines, or if I can freely use it for any purpose.
- \* Thanks.
- \* Kevin
- \*/

\_\_\_\_\_

#### Files:

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

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```
/*
* SpanDSP - a series of DSP components for telephony
* g711.h - In line A-law and u-law conversion routines
* Written by Steve Underwood <steveu@coppice.org>
* Copyright (C) 2001 Steve Underwood
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- \*/

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Files:

```
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
```

License:

```
/*
* SpanDSP - a series of DSP components for telephony
```

....

\* g722\_decode.c - The ITU G.722 codec, decode part.

- \* Written by Steve Underwood <steveu@coppice.org>
- \*
- \* Copyright (C) 2005 Steve Underwood

\*

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\* Portable Audio I/O Library

\* Memory barrier utilities

\*

\* Author: Bjorn Roche, XO Audio, LLC

\* This program uses the PortAudio Portable Audio Library.

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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

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\*

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# Files:

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#ifndef \_LIBC
# include <config.h>
#endif

#include "getopt.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>

#ifdef \_\_VMS
# include <unixlib.h>
#endif

/\* Completely disable NLS for getopt. We won't include translations for it anyway. If the system lacks getopt\_long, missing translations probably aren't a problem. \*/ /\* #ifdef \_LIBC # include <libintl.h> #else # include "gettext.h" # define \_(msgid) gettext (msgid) #endif \*/ #define \_(msgid) (msgid) #if defined \_LIBC && defined USE\_IN\_LIBIO

# include <wchar.h> #endif

#ifndef attribute\_hidden
# define attribute\_hidden
#endif

/\* Unlike standard Unix `getopt', functions like `getopt\_long'

let the user intersperse the options with the other arguments.

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

Using `getopt' or setting the environment variable POSIXLY\_CORRECT disables permutation.

Then the application's behavior is completely standard.

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

#include "getopt\_int.h"

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

char \*optarg;

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

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

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

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

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

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

int opterr = 1;

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

int optopt = '?';

/\* Keep a global copy of all internal members of getopt\_data. \*/

static struct \_getopt\_data getopt\_data;

#if defined HAVE\_DECL\_GETENV && !HAVE\_DECL\_GETENV
extern char \*getenv ();
#endif

#ifdef \_LIBC

/\* Stored original parameters. XXX This is no good solution. We should rather copy the args so that we can compare them later. But we must not use malloc(3). \*/ extern int \_\_libc\_argc; extern char \*\*\_\_libc\_argv;

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

# ifdef USE\_NONOPTION\_FLAGS

/\* Defined in getopt\_init.c \*/
extern char \*\_\_getopt\_nonoption\_flags;
# endif

```
# ifdef USE NONOPTION FLAGS
# define SWAP FLAGS(ch1, ch2) \setminus
if (d->__nonoption_flags_len > 0)
                                      {
           \
  char __tmp = __getopt_nonoption_flags[ch1];
                                                  \
  __getopt_nonoption_flags[ch1] = __getopt_nonoption_flags[ch2];
                                                                   \
  __getopt_nonoption_flags[ch2] = __tmp;
                                              \
  }
# else
# define SWAP_FLAGS(ch1, ch2)
# endif
#else /* ! LIBC */
# define SWAP_FLAGS(ch1, ch2)
#endif /* LIBC */
```

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

`first\_nonopt' and `last\_nonopt' are relocated so that they describe the new indices of the non-options in ARGV after they are moved. \*/

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

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

```
#if defined _LIBC && defined USE_NONOPTION_FLAGS
/* First make sure the handling of the `__getopt_nonoption_flags'
  string can work normally. Our top argument must be in the range
  of the string. */
if (d->__nonoption_flags_len > 0 && top >= d->__nonoption_flags_max_len)
 {
  /* We must extend the array. The user plays games with us and
presents new arguments. */
  char *new_str = malloc (top + 1);
  if (new str == NULL)
d \rightarrow nonoption_flags\_len = d \rightarrow nonoption_flags\_max\_len = 0;
  else
{
 memset (__mempcpy (new_str, __getopt_nonoption_flags,
    d->__nonoption_flags_max_len),
  '\0', top + 1 - d->__nonoption_flags_max_len);
 d->__nonoption_flags_max_len = top + 1;
 __getopt_nonoption_flags = new_str;
}
 }
#endif
while (top > middle && middle > bottom)
 {
  if (top - middle > middle - bottom)
{
 /* Bottom segment is the short one. */
 int len = middle - bottom;
 register int i;
 /* Swap it with the top part of the top segment. */
 for (i = 0; i < len; i++)
  {
```

tem = argv[bottom + i];

```
argv[bottom + i] = argv[top - (middle - bottom) + i];
    argv[top - (middle - bottom) + i] = tem;
    SWAP_FLAGS (bottom + i, top - (middle - bottom) + i);
   }
 /* Exclude the moved bottom segment from further swapping. */
 top -= len;
}
   else
 {
 /* Top segment is the short one. */
 int len = top - middle;
 register int i;
 /* Swap it with the bottom part of the bottom segment. */
 for (i = 0; i < len; i++)
   {
    tem = argv[bottom + i];
    argv[bottom + i] = argv[middle + i];
    argv[middle + i] = tem;
    SWAP_FLAGS (bottom + i, middle + i);
   }
 /* Exclude the moved top segment from further swapping. */
 bottom += len;
}
  }
/* Update records for the slots the non-options now occupy. */
d->__first_nonopt += (d->optind - d->__last_nonopt);
d->__last_nonopt = d->optind;
}
/* Initialize the internal data when the first call is made. */
static const char *
_getopt_initialize (int argc, char **argv, const char *optstring,
   int posixly_correct, struct _getopt_data *d)
{
/* Start processing options with ARGV-element 1 (since ARGV-element 0
  is the program name); the sequence of previously skipped
  non-option ARGV-elements is empty. */
d->__first_nonopt = d->__last_nonopt = d->optind;
d->__nextchar = NULL;
d->__posixly_correct = posixly_correct || !!getenv ("POSIXLY_CORRECT");
```

```
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
   \parallel \_getopt\_nonoption\_flags[0] == '\0')
  d->__nonoption_flags_max_len = -1;
 else
  {
   const char *orig_str = __getopt_nonoption_flags;
   int len = d->__nonoption_flags_max_len = strlen (orig_str);
   if (d->__nonoption_flags_max_len < argc)
 d->__nonoption_flags_max_len = argc;
    __getopt_nonoption_flags =
 (char *) malloc (d->__nonoption_flags_max_len);
   if (__getopt_nonoption_flags == NULL)
 d->__nonoption_flags_max_len = -1;
   else
 memset (__mempcpy (__getopt_nonoption_flags, orig_str, len),
 '\0', d->__nonoption_flags_max_len - len);
  }
}
  d->__nonoption_flags_len = d->__nonoption_flags_max_len;
 }
else
 d->__nonoption_flags_len = 0;
#endif
return optstring;
```

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

}

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

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

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

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

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

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

Long-named options begin with `--' instead of `-'. Their names may be abbreviated as long as the abbreviation is unique or is an exact match for some defined option. If they have an argument, it follows the option name in the same ARGV-element, separated from the option name by a `=', or else the in next ARGV-element. When `getopt' finds a long-named option, it returns 0 if that option's `flag' field is nonzero, the value of the option's `val' field if the `flag' field is zero.

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

LONGIND returns the index in LONGOPT of the long-named option found.

It is only valid when a long-named option has been found by the most recent call.

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

```
If POSIXLY_CORRECT is nonzero, behave as if the POSIXLY_CORRECT environment variable were set. */
```

### int

```
_getopt_internal_r (int argc, char **argv, const char *optstring,
   const struct option *longopts, int *longind,
   int long_only, int posixly_correct, struct _getopt_data *d)
{
int print_errors = d->opterr;
if (optstring[0] == ':')
 print_errors = 0;
if (argc < 1)
 return -1;
d->optarg = NULL;
if (d \rightarrow optind == 0 \parallel !d \rightarrow initialized)
 {
  if (d \rightarrow 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] != '-' \parallel argv[d->optind][1] == '\0' \setminus
     || (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 \rightarrow _first_nonopt = d \rightarrow optind;
```

```
if (d->__ordering == PERMUTE)
```

{

/\* If we have just processed some options following some non-options, exchange them so that the options come first. \*/

if (d->\_\_first\_nonopt != d->\_\_last\_nonopt
 && d->\_\_last\_nonopt != d->optind)
 exchange ((char \*\*) argv, d);
else if (d->\_\_last\_nonopt != d->optind)
 d->\_\_first\_nonopt = d->optind;

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

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

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

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

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

```
d->optind = argc;
}
```

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

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

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

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

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

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

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

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

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

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

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

```
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)
   {
#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;
    if (__asprintf (&buf, _("%s: option `%s' is ambiguous\n"),
     argv[0], argv[d->optind]) >= 0)
 {
```

```
_IO_flockfile (stderr);
  int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
  ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;
  __fxprintf (NULL, "%s", buf);
  ((_IO_FILE *) stderr)->_flags2 = old_flags2;
  _IO_funlockfile (stderr);
  free (buf);
 }
#else
    fprintf (stderr, _("%s: option `%s' is ambiguous\n"),
     argv[0], argv[d->optind]);
#endif
   }
 d->__nextchar += strlen (d->__nextchar);
 d->optind++;
 d->optopt = 0;
 return '?';
}
  if (pfound != NULL)
{
 option_index = indfound;
 d->optind++;
 if (*nameend)
   {
    /* Don't test has_arg with >, because some C compilers don't
 allow it to be used on enums. */
    if (pfound->has_arg)
 d->optarg = nameend + 1;
    else
 {
  if (print_errors)
   {
#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;
    int n;
#endif
    if (argv[d->optind - 1][1] == '-')
 {
   /* --option */
#if defined _LIBC && defined USE_IN_LIBIO
```

```
n = __asprintf (&buf, _("\
%s: option `--%s' doesn't allow an argument\n"),
```

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

```
else if (pfound->has_arg == 1)
   {
    if (d->optind < argc)
 d->optarg = argv[d->optind++];
    else
 {
  if (print_errors)
   {
#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] == ':' ? ':' : '?';
 }
   }
 d->__nextchar += strlen (d->__nextchar);
 if (longind != NULL)
   *longind = option_index;
 if (pfound->flag)
   {
    *(pfound->flag) = pfound->val;
    return 0;
   }
 return pfound->val;
```

```
/* Can't find it as a long option. If this is not getopt_long_only,
 or the option starts with '--' or is not a valid short
 option, then it's an error.
 Otherwise interpret it as a short option. */
   if (!long only || argv[d->optind][1] == '-'
 || strchr (optstring, *d->__nextchar) == NULL)
{
 if (print_errors)
   {
#if defined _LIBC && defined USE_IN_LIBIO
    char *buf:
    int n;
#endif
    if (argv[d->optind][1] == '-')
 {
  /* --option */
#if defined _LIBC && defined USE_IN_LIBIO
  n = \_asprintf (&buf, _("%s: unrecognized option `--%s'\n"),
   argv[0], d->__nextchar);
#else
  fprintf (stderr, _("%s: unrecognized option `--%s"\n"),
   argv[0], d->__nextchar);
#endif
 }
    else
 {
  /* +option or -option */
#if defined _LIBC && defined USE_IN_LIBIO
  n = \_asprintf (&buf, _("%s: unrecognized option `%c%s'\n"),
   argv[0], argv[d->optind][0], d->__nextchar);
#else
  fprintf (stderr, _("%s: unrecognized option `%c%s'\n"),
   argv[0], argv[d->optind][0], d->__nextchar);
#endif
 }
#if defined _LIBC && defined USE_IN_LIBIO
    if (n \ge 0)
 {
  _IO_flockfile (stderr);
  int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
  ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;
```

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

}

```
((_IO_FILE *) stderr)->_flags2 = old_flags2;
  _IO_funlockfile (stderr);
  free (buf);
 }
#endif
   }
 d->__nextchar = (char *) "";
 d->optind++;
 d->optopt = 0;
 return '?';
}
 }
/* Look at and handle the next short option-character. */
{
 char c = *d->__nextchar++;
 char *temp = strchr (optstring, c);
 /* Increment `optind' when we start to process its last character. */
 if (*d->__nextchar == '\0')
   ++d->optind;
 if (temp == NULL \parallel c == ':')
   {
if (print_errors)
 {
#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;
    int n;
#endif
   if (d->__posixly_correct)
    {
 /* 1003.2 specifies the format of this message. */
#if defined _LIBC && defined USE_IN_LIBIO
 n = \_asprintf (&buf, _("%s: illegal option -- %c\n"),
  argv[0], c);
#else
 fprintf (stderr, _("%s: illegal option -- %c\n"), argv[0], c);
#endif
    }
   else
    {
#if defined _LIBC && defined USE_IN_LIBIO
 n = \_asprintf (&buf, _("%s: invalid option -- %c\n"),
```

```
argv[0], c);
#else
 fprintf (stderr, _("%s: invalid option -- %c\n"), argv[0], c);
#endif
    }
#if defined _LIBC && defined USE_IN_LIBIO
   if (n \ge 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 != '\setminus 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);
```

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

```
return 'W'; /* Let the application handle it. */
   }
 if (temp[1] == ':')
   {
if (temp[2] == ':')
  {
  /* This is an option that accepts an argument optionally. */
  if (*d->__nextchar != '\0')
    {
 d->optarg = d->__nextchar;
 d->optind++;
    }
  else
    d->optarg = NULL;
  d->__nextchar = NULL;
  }
else
  {
  /* This is an option that requires an argument. */
  if (*d->__nextchar != '\0')
    {
 d->optarg = d->__nextchar;
 /* If we end this ARGV-element by taking the rest as an arg,
   we must advance to the next element now. */
 d->optind++;
    }
  else if (d->optind == argc)
    {
 if (print_errors)
  {
   /* 1003.2 specifies the format of this message. */
#if defined _LIBC && defined USE_IN_LIBIO
   char *buf;
   if (__asprintf (&buf, _("\
%s: option requires an argument -- %c\n''),
    argv[0], c) >= 0)
    {
 _IO_flockfile (stderr);
 int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
 ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;
 __fxprintf (NULL, "%s", buf);
 ((_IO_FILE *) stderr)->_flags2 = old_flags2;
 _IO_funlockfile (stderr);
```

```
free (buf);
     }
#else
   fprintf (stderr,
     _("%s: option requires an argument -- %c\n"),
     argv[0], c);
#endif
  }
 d->optopt = c;
 if (optstring[0] == ':')
  c = ':';
 else
  c = '?':
    }
   else
    /* We already incremented `optind' once;
  increment it again when taking next ARGV-elt as argument. */
    d->optarg = argv[d->optind++];
   d->___nextchar = NULL;
  }
   }
 return c;
}
}
int
_getopt_internal (int argc, char **argv, const char *optstring,
  const struct option *longopts, int *longind,
  int long_only, int posixly_correct)
{
int result;
getopt_data.optind = optind;
getopt_data.opterr = opterr;
result = _getopt_internal_r (argc, argv, optstring, longopts, longind,
      long_only, posixly_correct, &getopt_data);
optind = getopt_data.optind;
optarg = getopt_data.optarg;
optopt = getopt_data.optopt;
return result;
}
/* glibc gets a LSB-compliant getopt.
 Standalone applications get a POSIX-compliant getopt. */
#if _LIBC
```

```
enum { POSIXLY_CORRECT = 0 };
#else
enum { POSIXLY_CORRECT = 1 };
#endif
```

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

#ifdef TEST

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

int

```
main (int argc, char **argv)
{
int c;
int digit_optind = 0;
while (1)
  {
  int this_option_optind = optind ? optind : 1;
  c = getopt (argc, argv, "abc:d:0123456789");
  if (c = -1)
break;
   switch (c)
{
case '0':
case '1':
case '2':
case '3':
case '4':
case '5':
case '6':
case '7':
case '8':
case '9':
 if (digit_optind != 0 && digit_optind != this_option_optind)
  printf ("digits occur in two different argv-elements.\n");
 digit_optind = this_option_optind;
 printf ("option %c\n", c);
```

```
break;
```

```
case 'a':
 printf ("option a\n");
 break;
case 'b':
 printf ("option b\n");
 break;
case 'c':
 printf ("option c with value `%s'\n", optarg);
 break;
case '?':
 break;
default:
 printf ("?? getopt returned character code 0%o ??\n", c);
}
  }
if (optind < argc)
 {
  printf ("non-option ARGV-elements: ");
   while (optind < argc)
printf ("%s ", argv[optind++]);
   printf ("\n");
  }
exit (0);
}
#endif /* TEST */
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