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/************************************************************************
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* Software Development Group
* National Center for Supercomputing Applications
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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   ZeusBench V1.01  
       ================  
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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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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
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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 (bc@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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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony - at - justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponag -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmex.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un506n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (efb@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUF.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganauge (Gottfried.Ganssauge -at- HAUF.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brunnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrv (jjarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
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A function gettimeofday in utilities.cc is based on


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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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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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  libbz2.dll test program.
  by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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  usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
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1.14 cryptsetup 1.6.0
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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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Theodore Ts'o
23-June-2007

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Homepage:

Author:
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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.

FreeType font driver for bdf files

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1.28 GDI_CapturingAnImage 1.0

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# install - install a program, script, or datafile

scriptversion=2003-09-24.23

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

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DOCUMENTATION ROADMAP
==========================================
This file contains the following sections:
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 grayscale 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 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 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.iijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.iijg.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.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

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

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ACKNOWLEDGMENTS

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the 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.

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

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

FILE FORMAT WARS

================
The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

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

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

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

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

Don't use an obsolete code base!

TO DO

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

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

1.40 jq 1.4
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1.43 ldns 1.6.17

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# install - install a program, script, or datafile

scriptversion=2009-04-28.21; # UTC

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

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

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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
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Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
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with every copy.

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

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

1.48 libcurl 7.39.0 7.39.0
libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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1.50 libestr 0.1.9 :0ubuntu2

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1.51 libevent 2.0.14 : (18 Nov 2012)

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1.52 libiconv 1.14

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GNU LIBICONV - character set conversion library

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

It provides support for the encodings:

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

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

Japanese

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

Korean

Armenian
   ARMSCII-8

Georgian
Georgian-Academy, Georgian-PS
Tajik
KOI8-T
Kazakh
PT154, RK1048
Thai
ISO-8859-11, TIS-620, CP874, MacThai
Laotian
MuleLao-1, CP1133
Vietnamese
VISCII, TCVN, CP1258
Platform specifics
HP-ROMAN8, NEXTSTEP
Full Unicode
UTF-8
UCS-2, UCS-2BE, UCS-2LE
UCS-4, UCS-4BE, UCS-4LE
UTF-16, UTF-16BE, UTF-16LE
UTF-32, UTF-32BE, UTF-32LE
UTF-7
C99, JAVA
Full Unicode, in terms of ‘uint16_t’ or ‘uint32_t’
(with machine dependent endianness and alignment)
UCS-2-INTERNAL, UCS-4-INTERNAL
Locale dependent, in terms of ‘char’ or ‘wchar_t’
(with machine dependent endianness and alignment, and with OS and
locale dependent semantics)
char, wchar_t
The empty encoding name “” is equivalent to "char": it denotes the
locale dependent character encoding.

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

European languages
CP[437,737,775,852,853,855,857,858,860,861,863,865,869,1125]
Semitic languages
CP864
Japanese
Chinese
BIG5-2003 (experimental)
Turkmen
TDS565
Platform specifics
ATARIST, RISCOS-LATIN1

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

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

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

Installation
------------

As usual for GNU packages:

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

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

On systems other than GNU/Linux, the iconv program will be internationalized only if GNU gettext has been built and installed before GNU libiconv. This means that the first time GNU libiconv is installed, we have a circular dependency between the GNU libiconv and GNU gettext packages, which can be resolved by building and installing either
- first libiconv, then gettext, then libiconv again,
or (on systems supporting shared libraries, excluding AIX)
- first gettext, then libiconv, then gettext again.

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

This library can be built and installed in two variants:

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

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

To use it in an autoconfiguring package:
- If you don't use automake, append m4/iconv.m4 to your aclocal.m4 file.
- If you do use automake, add m4/iconv.m4 to your m4 macro repository.
- Add to the link command line of libraries and executables that use
the functions the placeholder @LIBICONV@ (or, if using libtool for
the link, @LTLIBICONV@). If you use automake, the right place for
these additions are the *_LDADD variables.
Note that 'iconv.m4' is also part of the GNU gettext package, which
installs it in /usr/local/share/aclocal/iconv.m4.

- The libc plug/override mode. This works on GNU/Linux, Solaris and OSF/1
  systems only. It is a way to get good iconv support without having
glibc-2.1.
It installs a library 'preloadable_libiconv.so'. This library can be used
with LD_PRELOAD, to override the iconv* functions present in the C library.

On GNU/Linux and Solaris:
  $ export LD_PRELOAD=/usr/local/lib/preloadable_libiconv.so

On OSF/1:
  $ export _RLD_LIST=/usr/local/lib/preloadable_libiconv.so:DEFAULT

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

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

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

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Version 3, 29 June 2007

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
November 12, 2015

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    printf("%s", png_get_copyright(NULL));

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
November 12, 2015
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 *
 * The functions here are used during reads to store data from the file
 * into the info struct, and during writes to store application data
 * into the info struct for writing into the file. This abstracts the
 * info struct and allows us to change the structure in the future.
 */
/*
 * png2pnm.c --- conversion from PNG-file to PGM/PPM-file
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1.56 libsrtp 1.4.4

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1.58 libvpx 1.4.0

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  Jason Garrett-Glaser <darkshikari@gmail.com>
  Henrik Grammer <hengar-6@student.ltu.se>

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1.59 linux kernel 3.10.94

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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)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)
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Ralph Metzler <rjkm@metzlerbros.de>
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Steve Brown <sbrown@cottland.com>
for his AFC kernel thread

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

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <fmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
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for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
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Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
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Michael Krufky <smkrufky@mlk.net>
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for the nxt2002 frontend driver

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

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* *
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstart() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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<one line to give the program's name and a brief idea of what it does.>
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1.61 linux-pam_GPLv2 1.1.5

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1.62 lm-sensors 3.3.1 :2ubuntu1
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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann

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Open Source Used In Cisco Meeting Server 2.2
Dynamic chip feature detection (a.k.a. generic chip support) in
libsensors and sensors.
* Mark M. Hoffman
Many improvements to the libsensors configuration file scanner.
* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

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1.64 lsof 4.85
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 */

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/*
 * regex.h -- regular expression definitions for lsof
 *
 * This header file is used only when the dialect has no POSIX-conformant
 * regular expression function set. When that is the case, the dialect's
 * machine.h will define USE_LIB_REGEX.
 *
 * When the dialect has a POSIX-conformant regular expression function set,
 * USE_LIB_REGEX is not defined and this header file #include's <regex.h>.
 *
 * V. Abell <abe@purdue.edu>
 * Purdue University
 */

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*/
#endif

#define USE_LIB_REGEX
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 * This section comes from GLIBC 2.2. It is used only when the dialect
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 */

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

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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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1.65 lua 5.1.4

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1.66 luafilesystem 1.5.0

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1.68 luaposix 5.1.24

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scriptversion=2012-03-27.16; # UTC

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1.69 luuid 1.0

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,  true,   true,   m4_len },
    { "m4exit",           false,  false,  true,   m4_m4exit },
    { "m4wrap",           false,  false,  true,   m4_m4wrap },
    { "maketemp",         false,  false,  true,   m4_maketemp },
    { "mkstemp",          false,  false,  true,   m4_mkstemp },
    { "patsubst",         true,   false,  true,   m4_patsubst },
    { "popdef",           false,  false,  true,   m4_popdef },
    { "pushdef",          false,  true,   true,   m4_pushdef },
    { "regexp",           true,   false,  true,   m4_regexp },
    { "shift",            false,  true,   true,   m4_shift },

}
{ "sinclu" , false , false , true , m4_sinclu },
{ "subtr" , false , false , true , m4_subtr },
{ "syscmd" , false , false , true , m4_syscmd },
{ "sysval" , false , false , false , m4_sysval },
{ "traceoff" , false , false , false , m4_traceoff },
{ "traceon" , false , false , false , m4_traceon },
{ "translit" , false , false , true , m4_translit },
{ "undefine" , false , false , true , m4_undefine },
{ "undivert" , false , false , false , m4_undivert },
{ 0 , false , false , false , 0 },

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

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

{ NULL , NULL , NULL },
};

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

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

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

/*----------------------------------------------------------.
| 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_MACROSEQUENCE;
  else if (regexp[0] == '\0')
    {
      macro_sequence_inuse = false;
      return;
    }

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

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

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

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

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

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

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

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

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

        while (((offset = re_search (&macro_sequence_buf, defn, len, offset,
                                     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   |
 | value other than `stdout' or `stderr'.  |
static bool
bad_argc (token_data *name, int argc, int min, int max)
{
bool isbad = false;

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

return isbad;
}

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

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

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

    stringstream ss;
    ss << arg;
    ss >> *valuep;

    if (ss.fail())
        M4ERROR ((warning_status, 0,
            "invalid conversion of `\%s' to integer",
            TOKEN_DATA_TEXT (macro));

    if (*valuep < 0)
        M4ERROR ((warning_status, 0,
            "invalid conversion of `\%s' to integer",
            TOKEN_DATA_TEXT (macro));

    if (*valuep > 0x7fffffff)
        M4ERROR ((warning_status, 0,
            "invalid conversion of `\%s' to integer",
            TOKEN_DATA_TEXT (macro));

    return true;
}

return false;
}
*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 (*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 defining, 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_builtln_by_addr (TOKEN_DATA_FUNC (argv[2]));
    if (bp == NULL)
        return;
    else
        define_builtln (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;
}
static int
dumpdef_cmp (const void *s1, const void *s2)
{
    return strcmp (SYMBOL_NAME (* (symbol *const *) s1),
                   SYMBOL_NAME (* (symbol *const *) s2));
}

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

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

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

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

    /* Make table of symbols invisible to expand_macro () */
}
obstack_finish (obs);

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

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

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

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

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

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

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

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

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

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

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

    name = ARG (1);
    s = find_symbol (name);
    if (s)
        M4ERROR ((warning_status, 0,
                   "Warning: %s: invalid symbol name ignored", ARG (0)));
    else
    {
        int i;
        if (! s->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 *) "";
                }
        s->func (obs, argc - 1, argv + 1);
    }
}
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 *) "";
            else
                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++)
        if ( bad_argc (argv[i], argc, 2, -1))
            return;

        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, "\n 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;

  /* -----------------------------------------------.
   | 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_GNUCUNUSED, int argc, token_data **argv)
int sig_status;
const char *prog_args[4] = { "sh", "-c" };
if (bad_argc (argv[0], argc, 2, 2) || !*cmd)
{
  /* The empty command is successful. */
  sysval = 0;
  return;
}

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

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

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

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

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

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

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

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

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

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

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

return;
}

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

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

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

s = ntoa (value, radix);

if (*s == '-')
{
    obstack_1grow (obs, '-');
    s++;
}
for (min -= strlen (s); --min >= 0;)
    obstack_1grow (obs, '0');
obstack_grow (obs, s, strlen (s));
}
static void
m4_incr (struct obstack *obs, int argc, token_data **argv)
{
    int value;

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

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

    shipout_int (obs, value + 1);
}

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

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

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

    shipout_int (obs, value - 1);
}

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

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

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

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

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

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

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

    if (argc == 1)
        undivert_all ()
    else
        for (i = 1; i < argc; i++)
            {
                file = strtol (ARG (i), &endp, 10);
                if (*endp == '\0' && isspace (to_uchar (*ARG (i))))
                    insert_diversion (file);
                else if (no_gnu_extensions)
                    M4ERROR ((warning_status, 0,
                        "non-numeric argument to builtin \"%s\", ARG (0)));
                else
                    {
                        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))
/* Explicit NULL distinguishes between empty and missing argument. */
set_quotes ((argc >= 2) ? TOKEN_DATA_TEXT (argv[1]) : NULL,
            (argc >= 3) ? TOKEN_DATA_TEXT (argv[2]) : NULL);
}

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

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

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

#ifdef ENABLE_CHANGEWORD

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

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

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

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

/*---------------------------------------------------------------
| Generic include function. Include the file given by the first |
| argument, if it exists. Complain about inaccessible files iff |
|-----------------------------------------------------------------*/
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 (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__",
/* Add trailing 'X' to PATTERN of length LEN as necessary, then securely create the file, and place the quoted new file name on OBS. Report errors on behalf of ME. */
static void
mkstemp_helper (struct obstack *obs, const char *me, const char *pattern,
    size_t len)
{
    int fd;
    size_t i;
    char *name;

    /* Guarantee that there are six trailing 'X' characters, even if the user forgot to supply them. Output must be quoted if successful. */
    obstack_grow (obs, lquote.string, lquote.length);
    obstack_grow (obs, pattern, len);
    for (i = 0; len > 0 && i < 6; i++)
        if (pattern[len - i - 1] != 'X')
            break;
    obstack_grow0 (obs, "XXXXXX", 6 - i);
    name = (char *) obstack_base (obs) + lquote.length;
    errno = 0;
    fd = mkstemp (name);
    if (fd < 0)
    {
        M4ERROR ((0, errno, "%s: cannot create tempfile `%s'", me, pattern));
        obstack_free (obs, obstack_finish (obs));
    }
    else
    {
        close (fd);
        /* Remove NUL, then finish quote. */
        obstack_blank (obs, -1);
        obstack_grow (obs, rquote.string, rquote.length);
    }
}

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

For reference, Solaris m4 does:
  maketemp() -> ''
  maketemp(X) -> 'X'
  maketemp(XX) -> `Xn', where n is last digit of pid
  maketemp(XXXXXXXX) -> `X00nnnn', where nnnn 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)));
}

/*----------------------------------------.
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". */

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

    /* Warn on bad arguments, but still exit. */
    bad_argc (argv[0], argc, 1, 2);
    if (argc >= 2 && !numeric_arg (argv[0], ARG (1), &exit_code))
        exit_code = EXIT_FAILURE;
    if (exit_code < 0 || exit_code > 255)
    {
        M4ERROR ((warning_status, 0,
                   "exit status out of range: `%d'", exit_code));
        exit_code = EXIT_FAILURE;
    }

    /* Change debug stream back to stderr, to force flushing debug stream and
     * detect any errors it might have encountered. */
    debug_set_output (NULL);
    debug_flush_files ();
    if (exit_code == EXIT_SUCCESS && retcode != EXIT_SUCCESS)
        exit_code = retcode;

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

static void
m4_m4wrap (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 2, -1))
        return;
    if (no_gnu_extensions)
        obstack_grow (obs, ARG (1), strlen (ARG (1)));
    else
        dump_args (obs, argc, argv, " ", false);
    obstack_1grow (obs, '\0');
push_wrapup ((char *) obstack_finish (obs));
/* Enable tracing of all specified macros, or all, if none is specified.  
   Tracing is disabled by default, when a macro is defined. This can be  
   overridden by the "t" debug flag. */

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

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

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

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

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

static void
m4_traceoff (struct obstack *obs M4_GNUCUNUSED, int argc, token_data **argv)
{
symbol *s;
int i:

```c

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

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

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

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

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

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

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

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

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

}

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

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

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

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

/*---------------------------------------------.
| Expand to the length of the first argument. |
'---------------------------------------------*/
static void
m4_len (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 2, 2))
        return;
    shipout_int (obs, strlen (ARG (1)));
}

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

static void
m4_index (struct obstack *obs, int argc, token_data **argv)
{
    const char *haystack;
    const char *result;
    int retval;
    if (bad_argc (argv[0], argc, 3, 3))
    {
        /* builtin(`index') is blank, but index(`abc') is 0. */
        if (argc == 2)
            shipout_int (obs, 0);
        return;
    }
    haystack = ARG (1);
    result = strstr (haystack, ARG (2));
    retval = result ? result - haystack : -1;
    shipout_int (obs, retval);
}

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

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

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

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

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

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

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

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

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

    for (from = '\0'; *s != '\0'; from = to_uchar (*s++))
    {
        if (*s == '-' && from != '\0')
        {
            to = to_uchar (*++s);
            if (to == '\0')
            {


/* trailing dash */
obstack_1grow (obs, '-');
break;
}
else if (from <= to)
{
while (from++ < to)
obstack_1grow (obs, from);
}
else
{
while (--from >= to)
obstack_1grow (obs, from);
}
}
else
obstack_1grow (obs, *s);
}
obstack_1grow (obs, '\0');
return (char *) obstack_finish (obs);
}
/*-----------------------------------------------------------------.
| The macro "translit" translates all characters in the first
|
| argument, which are present in the second argument, into the |
| corresponding character from the third argument. If the third |
| argument is shorter than the second, the extra characters in the |
| second argument are deleted from the first.
|
`-----------------------------------------------------------------*/
static void
m4_translit (struct obstack *obs, int argc, token_data **argv)
{
const char *data = ARG (1);
const char *from = ARG (2);
const char *to;
char map[UCHAR_MAX + 1];
char found[UCHAR_MAX + 1];
unsigned char ch;
if (bad_argc (argv[0], argc, 3, 4) || !*data || !*from)
{
/* builtin(`translit') is blank, but translit(`abc') is abc. */
if (2 <= argc)
obstack_grow (obs, data, strlen (data));
return;
}

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to = ARG (3);
if (strchr (to, '-') != NULL)
{
    to = expand_ranges (to, obs);
    assert (to && *to);
}

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

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

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

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

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

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

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

static int substitute_warned = 0;

static void
substitute (struct obstack *obs, const char *victim, const char *repl,
        struct re_registers *regs)
{
    int ch;
    __re_size_t ind;
    while (1)
const char *backslash = strchr (repl, '\');
if (!backslash)
{
    obstack_grow (obs, repl, strlen (repl));
    return;
}
obstack_grow (obs, repl, backslash - repl);
repl = backslash;
ch = *++repl;
switch (ch)
{
    case '0':
        if (!substitute_warned)
        {
            M4ERROR ((warning_status, 0, "Warning: \0 will disappear, use \& instead in replacements"));
            substitute_warned = 1;
        }
        /* Fall through. */
    case '&':
        obstack_grow (obs, victim + regs->start[0],
                      regs->end[0] - regs->start[0]);
        repl++;
        break;
    case '1': case '2': case '3': case '4': case '5': case '6':
    case '7': case '8': case '9':
        ind = ch -= '0';
        if (regs->num_regs - 1 <= ind)
            M4ERROR ((warning_status, 0,
                      "Warning: sub-expression %d not present", ch));
        else if (regs->end[ch] > 0)
            obstack_grow (obs, victim + regs->start[ch],
                          regs->end[ch] - regs->start[ch]);
        repl++;
        break;
    case '0':
        M4ERROR ((warning_status, 0,
                   "Warning: trailing \ ignored in replacement"));
        return;
    default:
        obstack_1grow (obs, ch);
        repl++;
        break;
}
/*------------------------------------------.
| Initialize regular expression variables.  |
`------------------------------------------*/

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

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

static void
m4_regexp (struct obstack *obs, int argc, token_data **argv)
{
    const char *victim;           /* first argument */
    const char *regexp;           /* regular expression */
    const char *repl;             /* replacement string */
    struct re_pattern_buffer buf; /* compiled regular expression */
    struct re_registers regs;     /* for subexpression matches */
    const char *msg;              /* error message from re_compile_pattern */
    int startpos;                 /* start position of match */
    int length;                   /* length of first argument */

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

    /* variant of `index' function */
    if (argc == 3)
        /* use built-in function */
    else
        /* use compiled regular expression */

    if (!msg)
        /* found a match */
    else
        /* not matched */

    if (argc == 3)
        /* use replacement string */
    else
        /* use regular expression */

    if (argc == 4)
        /* use third argument */
    else
        /* use index of first match */

    /* return result */
}

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

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

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

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

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

free_pattern_buffer (&buf, &regs);
}

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

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

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

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

regexp = TOKEN_DATA_TEXT(argv[2]);
init_pattern_buffer(&buf, &regs);
msg = re_compile_pattern(regexp, strlen(regexp), &buf);

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

victim = TOKEN_DATA_TEXT(argv[1]);
length = strlen(victim);
offset = 0;
while (offset <= length)
{
    matchpos = re_search(&buf, victim, length,
        offset, length - offset, &regs);
    if (matchpos < 0)
    {
        /* Match failed -- either error or there is no match in the 
         * rest of the string, in which case the rest of the string is 
         * copied verbatim. */
        if (matchpos == -2)
            M4ERROR((warning_status, 0,
                "error matching regular expression`%s'", regexp));
        else if (offset < length)
            obstack_grow(obs, victim + offset, length - offset);
    }
}
break;
}

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

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

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

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

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

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

free_pattern_buffer (&buf, &regs);
}

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

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

void
m4-placeholder (struct obstack *obs M4_GNUC_UNUSED, int argc,
    token_data **argv)
{
  M4ERROR ((warning_status, 0, "\n  builtin `\%s' requested by frozen file is not supported", ARG (0)));
}
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':
                if (no_gnu_extensions)
                {
                    i = *text++ - '0';
                }
                else
                {
                    for (i = 0; isdigit (to_uchar (*text)); text++)
                        i = i*10 + (*text - '0');
                }
                if (i < argc)
                    obstack_grow (obs, TOKEN_DATA_TEXT (argv[i]),
                        strlen (TOKEN_DATA_TEXT (argv[i])));
                break;
            case '#': /* number of arguments */
                shipout_int (obs, argc - 1);
                text++;  
                break;
            case '*': /* all arguments */
case '@': /* ... same, but quoted */
dump_args (obs, argc, argv, ",", *text == '"');
text++;
break;

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

1.72 MIT Kerberos V5 1.11.1

1.72.1 Available under license:

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

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
```
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/gssapi/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/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
```
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#include/gssrpc/auth_gss.h */
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/* include/k5-base64.h - base64 declarations */
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/*
* This prototype for k5-int.h (Krb5 internals include file)
* includes the user-visible definitions from krb5.h and then
* includes other definitions that are not user-visible but are
* required for compiling Kerberos internal routines.
*
* John Gilmore, Cygnus Support, Sat Jan 21 22:45:52 PST 1995
*/
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1.76 ntp 4.2.8p8

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Replied: Fri, 16 Feb 2001 14:12:54 -0500
Replied: "Darren Reed <darrenr@reed.wattle.id.au> "
Received: from [139.134.6.79] by whimsy.udel.edu id aa15476;
    16 Feb 2001 04:21 EST
Received: from CPE-61-9-164-106.vic.bigpond.net.au
    ([139.134.4.52]) by mailin6.bigpond.com (Netscape Messaging
    Server 4.15) with SMTP id G8UFIB00.4QI for
    <stenn@whimsy.udel.edu>; Fri, 16 Feb 2001 19:25:23 +1000
Received: from CPE-61-9-164-110.vic.bigpond.net.au ([61.9.164.110]) by mail5.bigpond.com (Claudes-Retiring-MailRouter V2.9e 9/1196372); 16 Feb 2001 19:20:45
Received: (from root@localhost)
    by CPE-61-9-164-106.vic.bigpond.net.au (8.11.0/8.11.0) id f1G92GC29158
    for <stenn@whimsy.udel.edu>; Fri, 16 Feb 2001 20:02:16 +1100
From: Darren Reed <darrenr@reed.wattle.id.au>
Message-Id: <20010216100901.UAA23657@avalon.reed.wattle.id.au>
Subject: Re: arlib?
In some email I received from Harlan Stenn, sie wrote:

> Darren,
>
> I'm looking for an async resolver library that I can use with NTP.
>
> I noticed your code in the contrib/ subdir of later bind8 distribution
>
> and I noticed the Copyright notice in arlib.c:
>
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>  * of property which results from the use of this software.
>
> so I thought I'd ask your permission to distribute your files if I can
> figure out how to make it all work with ntpd.

http://coombs.anu.edu.au/~avalon/arlib.tar.gz

a few bug fixes (inc. buffer overflow :) and stuff in there.

But otherwise, go for it.

Darren

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snmp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26] Jeff Johnson <sphil@chatham.usdesign.com> massive prototyping overhaul
26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpsweep
27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30] Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for
NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
    space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
    makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
    support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase,
    Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing
    (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
    TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
    validated HTML documents according to the HTML DTD

_________________________________________________________________
References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atlsoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me
12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:%20reg@dwf.com
14. mailto:%20clift@ml.csiro.au
15. mailto:%20casey@csc.co.za
16. mailto:%20Sven_Dietrich@trimble.COM
17. mailto:%20dundas@salt.jpl.nasa.gov
18. mailto:%20duwe@immd4.informatik.uni-erlangen.de
19. mailto:%20dennis@mbill.canet.ca
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/* */
/* */
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* $Id: easy-tls.c,v 1.4 2002/03/05 09:07:16 bodo Exp $
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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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1.82 openssl-fips 2.0.5

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1.85 psciutils 3.1.9 :2010-01-31  Martin Mares

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1.86 pcre 8.38

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1.92 protobuf 2.4.1

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1.93 pthread-stubs 0.3

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1.94 ptlib 2.12.8 :6.el7

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


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

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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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 @brief Various architecture definitions Speex
*/
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 */

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```
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```

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```
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```

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

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

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

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1.96.1 Available under license :
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Active SWIG Developers:
William Fulton (wsf@fultondesigns.co.uk) (SWIG core, Java, C#, Windows, Cygwin)
Olly Betts (olly@survex.com) (PHP)
Joseph Wang (joequant@gmail.com) (R)
Xavier Delacour (xavier.delacour@gmail.com) (Octave)
David Nadlinger (code@klickverbot.at) (D)

Past SWIG developers and major contributors include:
Dave Beazley (dave-swig@dabeaz.com) (SWIG core, Python, Tcl, Perl)
Henning Thielemann (swig@henning-thielemann.de) (Modula3)
Matthias Kppe (mkoeppe@mail.math.uni-magdeburg.de) (Guile, MzScheme)
Luigi Ballabio (luigi.ballabio@fastwebnet.it) (STL wrapping)
Mikel Bancroft (mikel@franz.com) (Allegro CL)
Surendra Singh (efuzzyone@netscape.net) (CLISP, CFFI)
Marcelo Matus (mmatus@acms.arizona.edu) (SWIG core, Python, UTL[python,perl,tcl,ruby])
Art Yerkes (ayerkes@speakeasy.net) (Ocaml)
Lyle Johnson (lyle@users.sourceforge.net) (Ruby)
Charlie Savage (cfis@interserv.com) (Ruby)
Thien-Thi Nguyen (ttnt@glug.org) (build/test/misc)
Richard Palmer (richard@magicality.org) (PHP)
Sam Liddicott - Ananova Ltd (saml@liddicott.com) (PHP)
Tim Hockin - Sun Microsystems (thockin@sun.com) (PHP)
Kevin Ruland (PHP)
Shibukawa Yoshiki (Japanese Translation)
Jason Stewart (jason@openinformatics.com) (Perl5)
Loic Dachary (Perl5)
David Fletcher (Perl5)
Gary Holt (Perl5)
Masaki Fukushima (Ruby)
Scott Michel (scottm@cs.ucla.edu) (Java directors)
Tiger Feng (songyanf@cs.uchicago.edu) (SWIG core)
Mark Rose (mrose@stm.lbl.gov) (Directors)
Jonah Beckford (beckford@usermail.com) (CHICKEN)
Ahmon Dancy (dancy@franz.com) (Allegro CL)
Dirk Gerrits (Allegro CL)
Neil Cawse (C#)
Harco de Hilster (Java)
Alexey Dyachenko (dyachenko@fromru.com) (Tcl)
Bob Techtent (Tcl)
Martin Froehlich <MartinFroehlich@ACM.org> (Guile)
Marcio Luis Teixeira <marciot@holly.colostate.edu>  (Guile)
Duncan Temple Lang  (R)
Miklos Vajna <vmiklos@frugalware.org>  (PHP directors)
Mark Gossage (mark@gossage.cjb.net)  (Lua)
Raman Gopalan (ramangopalan@gmail.com)  (eLua)
Gonzalo Garramuno (ggarra@advancedsl.com.ar)  (Ruby, Ruby's UTL)
John Lenz  (Guile, MzScheme updates, Chicken module, runtime system)
Ian Lance Taylor  (Go)
Vadim Zeitlin  (PCRE)
Stefan Zager (szager@gmail.com)(Python)

Past contributors include:
(See CHANGES and CHANGES.current and the bug tracker for a more complete list).

Past students:
Songyan Feng (Chicago).
Xinghua Shi (Chicago).
Jing Cao (Chicago).
Aquinas Hobor (Chicago).

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

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* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine
* To: Kevin Ma <kma@google.com>
* Hi Kevin,
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* Cheers,
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* 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
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* Thanks.
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system_wrappers/source/set_thread_name_win.h

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1.114 zlib 1.2.8

1.114.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.8, April 28th, 2013

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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