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/*

* mod_mime_magic: MIME type lookup via file magic numbers

```

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*/

```

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For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign

```

```

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* httpd@ncsa.uiuc.edu
*
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*****
*
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```

For the srclib\apr-util\xml\expat\confertools\install-sh component:

```
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
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#
```

For the test\zb.c component:

```
/*          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)

*/

For the expat xml parser component:

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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
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X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
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Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
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```
</div>
</div>
<div class="bottomlang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
</div><div class="top"><a href="#page-header"></a></div><div
class="section"><h2><a id="comments_section" name="comments_section">Comments</a></h2><div
class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be
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HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a
href="http://httpd.apache.org/lists.html">mailing lists</a>.</div>
<script type="text/javascript"><!--<!--><![CDATA[</><!--<!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
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href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--<!--><![CDATA[</><!--<!--
if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
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</script></div></div>
```

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*
*/

```

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```
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```

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```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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*
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```
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# install - install a program, script, or datafile  
# This comes from X11R5 (mit/util/scripts/install.sh).
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```
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```

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```
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=====
```

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

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

```
*/
```

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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

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

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1.6 bridge-utils 1.5

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

/*

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*

minibz2

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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1.9 cairo 1.14.2

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```
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```
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1.14 cryptsetup 1.6.0

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1.16 dhcp 4.1-ESV-R9

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1.17 dhcpcd 6.0.2

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1.18 dmidecode 2.12 :r0.0

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1.19 docker 1.9.1

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Gocheck - A rich testing framework for Go

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

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<https://github.com/golang/protobuf>

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Theodore Ts'o
23-June-2007

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```
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```

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```
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```

```
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Ty Coon, President of Vice
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--- end of FTL.TXT ---

```

/*****
/*
/* ftspic.c
/*
/* The FreeType position independent code services for smooth module. */
/*
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/* Oran Agra and Mickey Gabel.
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/*
*****/

```

```

*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
* http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
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```

```

*
* This differs from Colin Plumb's older public domain implementation in that
* no exactly 32-bit integer data type is required (any 32-bit or wider
* unsigned integer data type will do), there's no compile-time endianness
* configuration, and the function prototypes match OpenSSL's. No code from
* Colin Plumb's implementation has been reused; this comment merely compares
* the properties of the two independent implementations.
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible. Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
*/
/* bdf.c

```

FreeType font driver for bdf files

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# install - install a program, script, or datafile

scriptversion=2013-10-30.23; # UTC

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```

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```

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

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

```
The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
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#~ "This is free software: you are free to change and redistribute it.\n"
#~ "There is NO WARRANTY, to the extent permitted by law.\n"
#~ "\n"
#~ msgstr ""
#~ "\n"
#~ "&#12521;&#12452;&#12475;&#12531;&#12473; GPLv3+: GNU GPL version 3 or later
<http://gnu.org/licenses/gpl.html>.\n"
#~ "This is free software: you are free to change and redistribute it.\n"
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1.33 glog 0.3.3

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/*

* h323filetransfer.cxx

*

* H323 File Transfer class.

*

* h323plus library

*

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

```

# and recognize all the CPU types, system types and aliases
# that are meaningful with *any* GNU software.
# Each package is responsible for reporting which valid configurations
# it does not support. The user should be able to distinguish
# a failure to support a valid configuration from a meaningless
# configuration.
#!/bin/sh
# install - install a program, script, or datafile

scriptversion=2003-09-24.23

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1.35 hdparm 9.38

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```

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1.38 iptables 1.4.12.2 :r0

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```

```
/*
```

```
* Author: Paul.Russell@rustcorp.com.au and mneuling@radlogic.com.au
```

```
*
```

```
* (C) 2000-2002 by the netfilter coreteam <coreteam@netfilter.org>:
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1.39 jpeg 8d

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README for release 8d of 15-Jan-2012

=====

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DOCUMENTATION ROADMAP

=====

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

- install.txt How to configure and install the IJG software.
- usage.txt Usage instructions for cjpeg, djpeg, jpegtran,

rdjpgcom, and wrjpgcom.

- *.1 Unix-style man pages for programs (same info as usage.txt).
 - wizard.txt Advanced usage instructions for JPEG wizards only.
 - change.log Version-to-version change highlights.
- Programmer and internal documentation:
- libjpeg.txt How to use the JPEG library in your own programs.
 - example.c Sample code for calling the JPEG library.
 - structure.txt Overview of the JPEG library's internal structure.
 - filelist.txt Road map of IJG files.
 - coderrules.txt Coding style rules --- please read if you contribute code.

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

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

OVERVIEW

=====

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

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

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

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

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

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

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

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

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REFERENCES

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

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

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

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

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

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

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

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

5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

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

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

A PostScript version of the JFIF document is available at

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

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

The TIFF 6.0 file format specification can be obtained by FTP from

<ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from

<http://www.ijg.org/files/>. It is expected that the next revision

of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org.

The most recent released version can always be found there in directory "files". This particular version will be archived as

<http://www.ijg.org/files/jpegsrc.v8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

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

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

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send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

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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 Sebestyén and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (also known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

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

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

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

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

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

FILE FORMAT WARS

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

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

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

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

Don't use an incompatible file format!

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

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

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

Don't use an obsolete code base!

TO DO

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

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

1.40 jq 1.4

1.40.1 Available under license :

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1.41 jquery 1.8.2

1.41.1 Available under license :

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1.42 json-c 0.12

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1.43 Idns 1.6.17

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"" Easy DNS (including DNSSEC) via Idns.

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

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

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

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

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

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

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

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1.47 libcap 2.22

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1.48 libcurl 7.39.0 7.39.0

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1.49 libdrm 1.3.0 :1.1

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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

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

Chinese

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

Korean

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

Armenian

ARMSCII-8

Georgian

Georgian-Academy, Georgian-PS

Tajik

KOI8-T

Kazakh

PT154, RK1048

Thai

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

Laotian

MuleLao-1, CP1133

Vietnamese

VISCII, TCVN, CP1258

Platform specifics

HP-ROMAN8, NEXTSTEP

Full Unicode

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

UCS-4, UCS-4BE, UCS-4LE
UTF-16, UTF-16BE, UTF-16LE
UTF-32, UTF-32BE, UTF-32LE
UTF-7
C99, JAVA

Full Unicode, in terms of 'uint16_t' or 'uint32_t'
(with machine dependent endianness and alignment)
UCS-2-INTERNAL, UCS-4-INTERNAL
Locale dependent, in terms of 'char' or 'wchar_t'
(with machine dependent endianness and alignment, and with OS and
locale dependent semantics)
char, wchar_t
The empty encoding name "" is equivalent to "char": it denotes the
locale dependent character encoding.

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

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

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

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

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

Installation

As usual for GNU packages:

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

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

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

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

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

This library can be built and installed in two variants:

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

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

To use it in an autoconfiguring package:

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

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

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

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

On GNU/Linux and Solaris:

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

On OSF/1:

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

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

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Download

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

Homepage

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

Bug reports to

<bug-gnu-libiconv@gnu.org>

Bruno Haible <bruno@clisp.org>

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1.53 liblogging 1.0.3 :2014-03-??

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November 12, 2015

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```
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```

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Glenn Randers-Pehrson

glennrp at users.sourceforge.net

November 12, 2015

```
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 *
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 *
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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
 * copyright (C) 1999 by Willem van Schaik <willem@schaik.com>
 *
 * version 1.0 - 1999.10.15 - First version.
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 */
```

1.56 libsrtp 1.4.4

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 */
```

1.57 libva 1.2.0.pre1

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1.58 libvpx 1.4.0

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1.59 linux 3.10.10

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
```

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

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.

* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:

* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers

* 2) skb_clone of received buffers

* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

*

*

*

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*

* M. Welsh, 6 July 1996

*

*

*/

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```

```
static inline int license_is_gpl_compatible(const char *license)
{
```

```

return (strcmp(license, "GPL") == 0
|| strcmp(license, "GPL v2") == 0
|| strcmp(license, "GPL and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
|| strcmp(license, "Dual MIT/GPL") == 0
|| strcmp(license, "Dual MPL/GPL") == 0);
}

```

```
#endif
```

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for the initial saa7146 driver and its recent overhaul
```

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for his work on the initial Linux DVB driver
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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver
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for his contributions to the dvb-net driver
```

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)
```

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for the nxt2004 frontend driver

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

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</appendix>

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

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

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

*

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

* <http://www.hypermall.com/>

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

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

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

* and spelling mistakes.

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

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

* re-established. (put back CFG_PHYIE)

*

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

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather lists

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers

* as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
 *
 *
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 *
 * M. Welsh, 6 July 1996
 *
 *
 */

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

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for the nxt2004 frontend driver

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

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

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

*

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

* <http://www.hypermall.com/>

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

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

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

* and spelling mistakes.

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

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

* re-established. (put back CFG_PHYIE)

*

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

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather lists

* (skb->atm.iovent != 0) for Rx skb's passed to vcc->push.

```

*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
*
*/

```

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

* Frodo Looijaard

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

* Merlin Hughes

Original author of sensord.

* Bob Schlaermann

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

* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

* Jean Delvare

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

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.64 logcabin 1.1.0

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```
GIMP Palette
Name: LogCabin logo colors
#
0 0 0 # 000000 black
255 255 255 # ffffff white
97 140 62 # 618c3e light green
36 96 2 # 246002 dark green
133 87 36 # 855724 brown
75 49 20 # 4b3114 dark brown
41 31 21 # 291f15 black brown
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```

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1.65 Isof 4.85

1.65.1 Available under license :

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

/*
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 *
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 *
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 */
 * regex.h -- regular expression definitions for Isof
```

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

```
/*
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*/
```

```
#ifdef USE_LIB_REGEX
```

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

*/

/* Definitions for data structures and routines for the regular
expression library, version 0.12.
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Boston, MA 02111-1307, USA. */

#!/usr/bin/perl

sort_res.perl5 - Script to group & sort lsof output by resource

#

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#

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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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Version 2, June 1991

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```
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```

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```
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```

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1.66 lua 5.1.4

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1.68 lualdap 1.1.0

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## 1.69 luaposix 5.1.24

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```

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```

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```

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

```
# depcomp - compile a program generating dependencies as side-effects
```

```
scriptversion=2012-03-27.16; # UTC
```

```
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/\* BEGIN RESET

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version: 2.8.2r1

\*/

/\*\*\*\*\*

\* Library: lcurses - Lua 5.1 interface to the curses library \*

\* \*

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# 1.70 Iuuid 1.0

## 1.71 Ivm2 2.02.79

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

```
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the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

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```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
/* GNU m4 -- A simple macro processor
```

```
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Foundation, Inc.
```

```
This file is part of GNU M4.
```

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```

```
*/
```

```
/* Code for all builtin macros, initialization of symbol table, and
```



```

expansion of user defined macros. */

#include "m4.h"

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

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

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

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

DECLARE (m4__file__);
DECLARE (m4__line__);
DECLARE (m4__program__);
DECLARE (m4_builtin);
DECLARE (m4_changecom);
DECLARE (m4_changequote);
#ifdef ENABLE_CHANGEWORD
DECLARE (m4_changeword);
#endif
DECLARE (m4_debugmode);
DECLARE (m4_debugfile);
DECLARE (m4_decr);
DECLARE (m4_define);
DECLARE (m4_defn);
DECLARE (m4_divert);
DECLARE (m4_divnum);
DECLARE (m4_dnl);
DECLARE (m4_dumpdef);
DECLARE (m4_errprint);
DECLARE (m4_esyscmd);
DECLARE (m4_eval);
DECLARE (m4_format);
DECLARE (m4_ifdef);
DECLARE (m4_ifelse);
DECLARE (m4_include);
DECLARE (m4_incr);
DECLARE (m4_index);
DECLARE (m4_indir);
DECLARE (m4_len);

```

```

DECLARE (m4_m4exit);
DECLARE (m4_m4wrap);
DECLARE (m4_maketemp);
DECLARE (m4_mkstemp);
DECLARE (m4_patsubst);
DECLARE (m4_popdef);
DECLARE (m4_pushdef);
DECLARE (m4_regexp);
DECLARE (m4_shift);
DECLARE (m4_sinclude);
DECLARE (m4_substr);
DECLARE (m4_syscmd);
DECLARE (m4_sysval);
DECLARE (m4_traceoff);
DECLARE (m4_traceon);
DECLARE (m4_translit);
DECLARE (m4_undefine);
DECLARE (m4_undivert);

#undef DECLARE

static builtin const builtin_tab[] =
{

/* name          GNUext macros blind function */

{ "__file__",    true, false, false, m4___file__ },
{ "__line__",   true, false, false, m4___line__ },
{ "__program__", true, false, false, m4___program__ },
{ "builtin",    true, true, true, m4_builtin },
{ "changeocom", false, false, false, m4_changeocom },
{ "changequote", false, false, false, m4_changequote },
#ifdef ENABLE_CHANGEWORD
{ "changeword", true, false, true, m4_changeword },
#endif
{ "debugmode",  true, false, false, m4_debugmode },
{ "debugfile",  true, false, false, m4_debugfile },
{ "decr",       false, false, true, m4_decr },
{ "define",     false, true, true, m4_define },
{ "defn",       false, false, true, m4_defn },
{ "divert",     false, false, false, m4_divert },
{ "divnum",    false, false, false, m4_divnum },
{ "dnl",        false, false, false, m4_dnl },
{ "dumpdef",    false, false, false, m4_dumpdef },
{ "errprint",   false, false, true, m4_errprint },
{ "esyscmd",    true, false, true, m4_esyscmd },
{ "eval",       false, false, true, m4_eval },
{ "format",     true, false, true, m4_format },

```

```

{ "ifdef",      false, false, true,  m4_ifdef },
{ "ifndef",     false, false, true,  m4_ifndef },
{ "include",    false, false, true,  m4_include },
{ "incr",       false, false, true,  m4_incr },
{ "index",      false, false, true,  m4_index },
{ "indir",      true,  true,  true,  m4_indir },
{ "len",        false, false, true,  m4_len },
{ "m4exit",     false, false, false, m4_m4exit },
{ "m4wrap",     false, false, true,  m4_m4wrap },
{ "maketemp",   false, false, true,  m4_maketemp },
{ "mkstemp",    false, false, true,  m4_mkstemp },
{ "patsubst",   true,  false, true,  m4_patsubst },
{ "popdef",     false, false, true,  m4_popdef },
{ "pushdef",    false, true,  true,  m4_pushdef },
{ "regexp",     true,  false, true,  m4_regexp },
{ "shift",      false, false, true,  m4_shift },
{ "sinclude",   false, false, true,  m4_sinclude },
{ "substr",     false, false, true,  m4_substr },
{ "syscmd",     false, false, true,  m4_syscmd },
{ "sysval",     false, false, false, m4_sysval },
{ "traceoff",   false, false, false, m4_traceoff },
{ "traceon",    false, false, false, m4_traceon },
{ "translit",   false, false, true,  m4_translit },
{ "undefine",   false, false, true,  m4_undefine },
{ "undivert",   false, false, false, m4_undivert },

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

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

```

```

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

```

```

{ NULL,    "__gnu__",    "" },

{ NULL,    NULL,    NULL },
};

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

    msg = re_compile_pattern (regexp, strlen (regexp), &macro_sequence_buf);
    if (msg != NULL)

```

```

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

/*-----,
| Free dynamic memory utilized by the macro sequence regular |
| expression during the define builtin.          |
\-----*/
void
free_macro_sequence (void)
{
    free_pattern_buffer (&macro_sequence_buf, &macro_sequence_regs);
}

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

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

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

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

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

        while ((offset = re_search (&macro_sequence_buf, defn, len, offset,
            len - offset, &macro_sequence_regs)) >= 0)

```

```

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

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

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

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

```

```

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

```

```

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

```

```

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

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

  return isbad;
}

```

```

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

```



```

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

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

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

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

const char *
ntoa (int32_t value, int radix)
{
    bool negative;

```

```

uint32_t uvalue;
static char str[256];
char *s = &str[sizeof str];

*--s = '\0';

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

    if (bad_argc (argv[0], argc, 2, 3))
        return;

```

```

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

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

switch (TOKEN_DATA_TYPE (argv[2]))
{
case TOKEN_TEXT:
    define_user_macro (ARG (1), ARG (2), mode);
    break;

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

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

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

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

```

```

lookup_symbol (ARG (i), SYMBOL_DELETE);
}

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

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

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

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

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

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

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

static void
m4_ifelse (struct obstack *obs, int argc, token_data **argv)
{
const char *result;

```

```

token_data *me = argv[0];

if (argc == 2)
    return;

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

argv++;
argc--;

result = NULL;
while (result == NULL)

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

    else
        switch (argc)
        {
            case 3:
                return;

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

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

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

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

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

struct dump_symbol_data

```

```

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

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

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

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

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

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

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

    if (argc == 1)
    {

```

```

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

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

obstack_finish (obs);

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

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

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

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

case TOKEN_VOID:
default:

```



```

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

```

```

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

```

```

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

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

```

```

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

```

```

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```

```

    }
}

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

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

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

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

```

```

}

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

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

    debug_flush_files ();
    #if W32_NATIVE
    if (strstr (SYSCMD_SHELL, "cmd"))
    {
        prog_args[0] = "cmd";
        prog_args[1] = "/c";
    }
    #endif
    prog_args[2] = cmd;
    errno = 0;
    child = create_pipe_in (ARG (0), SYSCMD_SHELL, (char **) prog_args,
        NULL, false, true, false, &fd);
    if (child == -1)
    {
        M4ERROR ((warning_status, errno, "cannot run command `%s'", cmd));
        sysval = 127;
        return;
    }
    pin = fdopen (fd, "r");
    if (pin == NULL)
    {
        M4ERROR ((warning_status, errno, "cannot run command `%s'", cmd));
        sysval = 127;
        close (fd);
        return;
    }
    while (1)
    {

```

```

size_t avail = obstack_room (obs);
size_t len;
if (!avail)
{
    int ch = getc (pin);
    if (ch == EOF)
        break;
    obstack_1grow (obs, ch);
    continue;
}
len = fread (obstack_next_free (obs), 1, avail, pin);
if (len <= 0)
    break;
obstack_blank_fast (obs, len);
}
if (ferror (pin) || fclose (pin))
    M4ERROR ((EXIT_FAILURE, errno, "cannot read pipe"));
errno = 0;
status = wait_subprocess (child, ARG (0), false, true, true, false,
                        &sig_status);
if (sig_status)
{
    assert (status == 127);
    sysval = sig_status << 8;
}
else
{
    if (status == 127 && errno)
        M4ERROR ((warning_status, errno, "cannot run command `%s'", cmd));
    sysval = status;
}
}

```

```

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

```

```

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

```

```

static void
m4_eval (struct obstack *obs, int argc, token_data **argv)

```

```

{
int32_t value = 0;
int radix = 10;
int min = 1;
const char *s;

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

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

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

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

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

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

```

```

    return;
}

s = ntoa (value, radix);

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

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

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

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

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

    shipout_int (obs, value + 1);
}

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

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

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

    shipout_int (obs, value - 1);
}

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

/*-----

```



```

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

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

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

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

  make_diversion (i);
}

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

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

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

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

  if (argc == 1)
    undivert_all ();
  else
    for (i = 1; i < argc; i++)

```

```

{
file = strtol (ARG (i), &endp, 10);
if (*endp == '\0' && !isspace (to_uchar (*ARG (i))))
insert_diversion (file);
else if (no_gnu_extensions)
M4ERROR ((warning_status, 0,
"non-numeric argument to builtin `%s'", ARG (0)));
else
{
fp = m4_path_search (ARG (i), NULL);
if (fp != NULL)
{
insert_file (fp);
if (fclose (fp) == EOF)
M4ERROR ((warning_status, errno,
"error undiverting `%s'", ARG (i)));
}
else
M4ERROR ((warning_status, errno,
"cannot undivert `%s'", ARG (i)));
}
}
}
}

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

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

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

skip_line ();
}

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

static void

```

```

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

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

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

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

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

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

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

#ifdef ENABLE_CHANGEWORD

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

static void
m4_changeword (struct obstack *obs M4_GNUC_UNUSED, int argc, token_data **argv)

```

```

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

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

#endif /* ENABLE_CHANGEWORD */

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

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

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

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

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

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

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

static void

```

```

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

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

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

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

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

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

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

    errno = 0;
    fd = mkstemp (name);
    if (fd < 0)
        {

```

```

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

```

```

static void
m4_maketemp (struct obstack *obs, int argc, token_data **argv)

```

```

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

```

For reference, Solaris m4 does:

```

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

```

```

const char *str = ARG (1);
int len = strlen (str);
int i;
int len2;

```

```

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

```

```

        obstack_grow0 (obs, str, len2);
    }
}
else
    mkstemp_helper (obs, ARG (0), ARG (1), strlen (ARG (1)));
}

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

/*-----
| Print all arguments on standard error. |
`-----*/

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

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

static void
m4___line__ (struct obstack *obs, int argc, token_data **argv)
{
    if (bad_argc (argv[0], argc, 1, 1))
        return;
    shipout_int (obs, current_line);
}

```

```

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

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

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

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

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

/*-----

```



```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

    if (argc == 1)
        hack_all_symbols (set_trace, obs);
    else
        for (i = 1; i < argc; i++)
            {

```

```

    s = lookup_symbol (ARG (i), SYMBOL_LOOKUP);
    if (!s)
        s = lookup_symbol (ARG (i), SYMBOL_INSERT);
    set_trace (s, obs);
}
}

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

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

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

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

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

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

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

```

```

    {
        change_flag = ARG (1)[0];
        new_debug_level = debug_decode (ARG (1) + 1);
    }
else
    {
        change_flag = 0;
        new_debug_level = debug_decode (ARG (1));
    }

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

```

```

shipout_int (obs, retval);
}

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

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

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

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

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

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

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

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

```

```
| is the string 9876543210. |
\-----*/
```

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

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

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

```
static void
m4_translit (struct obstack *obs, int argc, token_data **argv)
```

```

{
const char *data = ARG (1);
const char *from = ARG (2);
const char *to;
char map[UCHAR_MAX + 1];
char found[UCHAR_MAX + 1];
unsigned char ch;

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

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

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

if (strchr (from, '-') != NULL)

```

```

{
    from = expand_ranges (from, obs);
    assert (from && *from);
}

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

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

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

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

/*-----
| Function to perform substitution by regular expressions. Used by |

```



```

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

```

```
static int substitute_warned = 0;
```

```
static void
substitute (struct obstack *obs, const char *victim, const char *repl,
           struct re_registers *regs)
```

```

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

```

```

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

```

```

case '1': case '2': case '3': case '4': case '5': case '6':
case '7': case '8': case '9':
ind = ch - '0';
if (regs->num_regs - 1 <= ind)
M4ERROR ((warning_status, 0,

```

```

        "Warning: sub-expression %d not present", ch));
else if (regs->end[ch] > 0)
    obstack_grow (obs, victim + regs->start[ch],
        regs->end[ch] - regs->start[ch]);
repl++;
break;

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

```

```

free_pattern_buffer (&buf, &regs);
}

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

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

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

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

    regexp = TOKEN_DATA_TEXT (argv[2]);

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

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

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

    offset = 0;

```

```

while (offset <= length)
{
    matchpos = re_search (&buf, victim, length,
                        offset, length - offset, &regs);
    if (matchpos < 0)
    {

        /* Match failed -- either error or there is no match in the
           rest of the string, in which case the rest of the string is
           copied verbatim. */

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

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

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

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

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

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

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

    free_pattern_buffer (&buf, &regs);
}

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

```

while still flagging it as a potential error if an attempt is made  
to actually use the builtin. \*/

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

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

```
/*-----  
| This function handles all expansion of user defined and predefined |  
| macros. It is called with an obstack OBS, where the macros        |  
| expansion will be placed, as an unfinished object. SYM points to  |  
| the macro definition, giving the expansion text. ARGV and ARGV    |  
| are the arguments, as usual.                                     |  
`-----*/
```

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

```

else
{
    for (i = 0; isdigit (to_uchar (*text)); text++)
        i = i*10 + (*text - '0');
}
if (i < argc)
    obstack_grow (obs, TOKEN_DATA_TEXT (argv[i]),
        strlen (TOKEN_DATA_TEXT (argv[i])));
break;

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

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

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

```

## 1.73 MIT Kerberos V5 1.11.1

### 1.73.1 Available under license :

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

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cmd/krb5/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/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c



lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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- lib/gssapi/generic/gssapi\_err\_generic.et
- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c

lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

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

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

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/*

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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

\*/

/\* -\*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -\*- \*/

/\* include/cm.h \*/

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## 1.76 NetSNMP 5.7.2.1

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## 1.78 openldap 2.4.44

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```

```
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## 1.85 pciutils 3.1.9 :2010-01-31 Martin Mares

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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

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

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

scriptversion=2003-09-24.23

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# Calling this script install-sh is preferred over install.sh, to prevent
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#
# 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
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# set DOITPROG to echo to test this script
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 * @brief Various architecture definitions Speex
 */
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\*/

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/\*\*

@file speex\_preprocess.h

@brief Speex preprocessor

\*/

/\*

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```
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//
```

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

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

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\*

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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

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

```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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# 1.101 stunnel 5.01 :1.fc21

## 1.101.1 Available under license :

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Version 2, June 1991

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a) You must cause the modified files to carry prominent notices

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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

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

```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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

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

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## 1.102 swig 2.0.7

### 1.102.1 Available under license :

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Version 3, 29 June 2007

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

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## 1.112 WebRTC m44

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Files governed by third party licenses:

`common_audio/fft4g.c`

`common_audio/signal_processing/spl_sqrt_floor.c`

`common_audio/signal_processing/spl_sqrt_floor_arm.S`

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

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

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

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

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

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

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

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

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

`modules/audio_processing/aec/aec_rdfc.c`

`system_wrappers/source/condition_variable_event_win.cc`

`system_wrappers/source/set_thread_name_win.h`

`system_wrappers/source/spreadsortlib/constants.hpp`

`system_wrappers/source/spreadsortlib/spreadsort.hpp`

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License:

/\*

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

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

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

\* Subject: Re: sqrt routine

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

\* Hi Kevin,

\* Thanks for asking. Those routines are public domain (originally posted to  
\* comp.sys.arm a long time ago), so you can use them freely for any purpose.

\* Cheers,

\* Wilco

\*

\* ----- Original Message -----

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

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

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

\* Subject: Fwd: sqrt routine

\* Hi Wilco,

\* I saw your sqrt routine from several web sites, including

\* <http://www.finesse.demon.co.uk/steven/sqrt.html>.

\* Just wonder if there's any copyright information with your Successive  
\* approximation routines, or if I can freely use it for any purpose.

\* Thanks.

\* Kevin

\*/

-----  
Files:

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

License:

/\*

\* SpanDSP - a series of DSP components for telephony

\*

\* g711.h - In line A-law and u-law conversion routines

\*

\* Written by Steve Underwood <steveu@coppice.org>

\*

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modules/audio\_coding/codecs/g722/main/source/g722\_enc\_dec.h  
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\* g722\_decode.c - The ITU G.722 codec, decode part.  
\*  
\* Written by Steve Underwood <steveu@coppice.org>  
\*  
\* Copyright (C) 2005 Steve Underwood  
\*  
\* Despite my general liking of the GPL, I place my own contributions  
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\* Based in part on a single channel G.722 codec which is:  
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\* Copyright (c) CMU 1993  
\* Computer Science, Speech Group  
\* Chengxiang Lu and Alex Hauptmann  
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modules/audio\_coding/codecs/isac/main/source/fft.c

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modules/audio\_device/mac/portaudio/pa\_ringbuffer.c  
modules/audio\_device/mac/portaudio/pa\_ringbuffer.h

License:

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\* \$Id: pa\_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$

\* Portable Audio I/O Library

\* Memory barrier utilities

\*

\* Author: Bjorn Roche, XO Audio, LLC

\*

\* This program uses the PortAudio Portable Audio Library.

\* For more information see: <http://www.portaudio.com>

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

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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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# 1.114 zlib 1.2.5

## 1.114.1 Available under license :

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.5, April 19th, 2010

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

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