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RoomOS 11.5.3.x - jenkins- all#52:ca7b6d6a6ad

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1.321.1 Available under license

1.322 hwmon-audiobridge 14

1.322.1 Available under license

1.323 webpack-dev-server 4.15.1

1.323.1 Available under license

1.324 html-webpack-plugin 5.5.3

1.324.1 Available under license

1.325 thousandeyes 1.157.0

1.325.1 Available under license

1.326 libdrm 2.4.109-cisco

1.326.1 Available under license

1.327 wayland 0.95.0

1.327.1 Available under license

1.328 linux-kernel 4.9.337

1.328.1 Available under license

1.329 react-bootstrap 2.8.0

1.329.1 Available under license

1.330 protobuf 3.7.1-2

1.330.1 Available under license

1.331 react-spring 9.7.2

1.331.1 Available under license

1.332 ts-loader 9.4.4

1.332.1 Available under license

1.333 react-select 5.7.4

1.333.1 Available under license

1.334 monaco-editor-webpack-plugin 7.1.0

1.334.1 Available under license

1.335 dompurify 3.0.5

1.335.1 Available under license

1.336 babel-loader 9.1.3

1.336.1 Available under license

1.337 webpack 5.88.2

1.337.1 Available under license

1.338 react-redux 8.1.2

1.338.1 Available under license

1.339 core-js 3.32.0

1.339.1 Available under license

1.340 fp-ts 2.16.1

1.340.1 Available under license

1.341 xml2js 0.6.2

1.341.1 Available under license

1.342 backbone 1.5.0

1.342.1 Available under license

1.343 react-monaco-editor 0.54.0

1.343.1 Available under license

1.344 bootstrap 5.3.1

1.344.1 Available under license

1.345 monaco-editor 0.41.0

1.345.1 Available under license

1.346 prettier 3.0.1

- 1.346.1 Available under license
- 1.347 babel-runtime-corejs2 7.22.10**
 - 1.347.1 Available under license
- 1.348 java-websocket 1.5.3**
 - 1.348.1 Available under license
- 1.349 androidx.constraintlayout.constraintlayout 2.1.4**
 - 1.349.1 Available under license
- 1.350 react-router-dom 6.15.0**
 - 1.350.1 Available under license
- 1.351 react-router 6.15.0**
 - 1.351.1 Available under license
- 1.352 marked 7.0.2**
 - 1.352.1 Available under license
- 1.353 types-lodash 4.14.197**
 - 1.353.1 Available under license
- 1.354 speexdsp 1.2rc3**
 - 1.354.1 Available under license
- 1.355 android-aosp 11.0.0_r48**
 - 1.355.1 Available under license
- 1.356 android-aosp 12.0.0_r28**
 - 1.356.1 Available under license

1.1 libtomcrypt 1.17

1.1.1 Available under license :

```
# /*
# * SHA-512
# * Implementation derived from LibTomCrypt (Tom St Denis)
# *
# * LibTomCrypt is a library that provides various cryptographic
# * algorithms in a highly modular and flexible manner.
# *
# * The library is free for all purposes without any express
# * guarantee it works.
# *
# * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
# */
```

1.2 libjpeg 6b

1.2.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.2.2 Available under license :

The Independent JPEG Group's JPEG software

=====

README for release 6b of 27-Mar-1998

=====

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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

IJG is not affiliated with the official ISO JPEG standards committee.

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.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wjjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.

change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful 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 compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. 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.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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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, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES

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We highly 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 <ftp://ftp.uu.net/graphics/jpeg/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 full 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). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212

642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The 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.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

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. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/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 <ftp://ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. 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. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have

direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only [ftp.uu.net](ftp://ftp.uu.net) is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the [ftp.uu.net](ftp://ftp.uu.net) release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. 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/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

=====

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making [cjpeg/djpeg](http://www.cjpeg.com) considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBMPPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

=====

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file

format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.3 libpng 1.2.44

1.3.1 Available under license :

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

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

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson

glennrp at users.sourceforge.net

June 26, 2010

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1.4 glibc 2.17

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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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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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1.5 csrp 1.0

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1.6 libtommath 0.42.0

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1.7 protobuf 2.6.1

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- * Fix compiler to not make output executable.

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

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

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- * Solaris 10 + Sun Studio fixes.

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

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- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

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- * gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

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- * Fixed initialization ordering problem in logging code.

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- * Small patch improving performance of in Python serialization.

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

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

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- * HPUX support.

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

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- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

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- * Added CodedInputStream.getTotalBytesRead().

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- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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

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1.8 headline 5.2

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```
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```

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```
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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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1.9 bash 3.2.57

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```
From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
```


Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)

id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <spcedt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700

In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)

X-Www: <http://www.armory.com/~spcedt/>

X-Mailer: Mail User's Shell (7.2.5 10/14/92)

To: chet@po.cwru.edu

Subject: Re: ksh scripts

Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
```

```
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
```

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

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```
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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.
```

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```
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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From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400

Received: by los.ora.com (4.1/Spike-2.1)

id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

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```

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```

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```

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```
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```

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

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*

* version 1.0 - 1999.10.15 - First version.

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/*-----

wpng - simple PNG-writing program

writepng.c

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1.11 linux-kernel 4.5.4

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QLogic Linux qlenic NIC Driver

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ConferenceTV card

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

/* 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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```
#ifndef __LICENSE_H
```

```
#define __LICENSE_H
```

```
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
```

```
  GNU LIBRARY GENERAL PUBLIC LICENSE
```

```
    Version 2, June 1991
```

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QLogic Linux Networking HBA Driver

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for his contributions to the dvb-net driver

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

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for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

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

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

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

Kirk Lapray <kirk.lapray@gmail.com>

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

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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1.13 zlib 1.2.3

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1.14 pam 1.3.1

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1.15 bzip2 1.0.8

1.16 zlib 1.2.8

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1.17 zlib 1.2.5

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1.19 zlib 1.2.6

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1.20 e2fsprogs 1.42.13

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*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

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

- trivial database library - private includes

-
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Theodore Ts'o
23-June-2007

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That's all there is to it!

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

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

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

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

<http://sourceforge.net/projects/e2fsprogs>

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

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

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

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

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

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

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1.21 ethtool 4.5

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1.22 glibc 2.23

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1.24 pixman 0.34.0

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1.25 slf4j 1.7.21

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1.29 protobuf 3.7.1-2

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* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)
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1.30 spawn-fcgi 1.6.3

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1.31 libopusfile 0.7

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1.34 utf8proc 2.2.0

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1.35 vlan 1.9

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1.39 linux-omap 3.4.113-cisco

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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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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</appendix>
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```

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

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for merging the nxt2002 and nxt2004 modules into a
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

@item

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

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

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

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

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

@item

If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

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

@end enumerate

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

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You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

@enumerate a

@item

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@subheading END OF TERMS AND CONDITIONS

@page

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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```

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```

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Ty Coon, President of Vice

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1.54 typesafe-actions 5.1.0

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1.55 libpcap 1.9.1

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1.56 linux-kernel 3.4.113

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ConferenceTV card

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Bhavin Shah
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Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang

```
/* 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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</appendix>
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#define __LICENSE_H

```

```
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 nxt2004 frontend driver

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

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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1.57 iproute 4.1.1

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1.62 cairo 1.14.12

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1.66 popt 1.18

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The DSP/Bridge project wish to thank all of its contributors, current bridge
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

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

*

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

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

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

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

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

* and spelling mistakes.

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

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

* re-established. (put back CFG_PHYIE)

*

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

*

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

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

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

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

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

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

*

* Implementing minimal-copy of received data:

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

* as needed. This means that data must always be copied to create

* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

* Fix is simple: make large buffers large enough to hold entire

* SDU, and leave <small_buffer_data> bytes empty at the start. Then

* copy small buffer contents to head of large buffer.

* Trick is to avoid fragmenting Linux, due to need for a lot of large

* buffers. This is done by 2 things:

* 1) skb->destructor / skb->atm.recycle_buffer

* combined, allow nicstar_free_rx_skb to be called to

* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <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) year 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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```
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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QLogic Linux/ESX Fibre Channel HBA Driver

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Version 2, June 1991

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

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

(If you think you should be in this list, but you are not, drop a
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1.80 universal-cookie 4.0.4

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1.81 icu 66

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-makefile-

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BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)

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Commands to generate dependency files

GEN_DEPS.c= \$(CC) -E -MM \$(DEFS) \$(CPPFLAGS)

GEN_DEPS.cc= \$(CXX) -E -MM \$(DEFS) \$(CPPFLAGS)

Flags for position independent code

SHAREDLIBCFLAGS = -fPIC

SHAREDLIBCXXFLAGS = -fPIC

SHAREDLIBCPPFLAGS = -DPIC

Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT

LIBCPPFLAGS =

Compiler switch to embed a runtime search path

LD_RPATH=

LD_RPATH_PRE= -Wl,-rpath,

Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,\$(notdir \$(MIDDLE_SO_TARGET))

Shared library options

LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix

SO = so

Non-shared intermediate object suffix

STATIC_O = ao

Compilation rules

%. \$(STATIC_O): \$(srcdir)/%.c

\$(COMPILE.c) \$(STATICCPPFLAGS) \$(STATICCFLAGS) -o \$@ \$<

%.o: \$(srcdir)/%.c

\$(COMPILE.c) \$(DYNAMICCPPFLAGS) \$(DYNAMICCFLAGS) -o \$@ \$<

%. \$(STATIC_O): \$(srcdir)/%.cpp

\$(COMPILE.cc) \$(STATICCPPFLAGS) \$(STATICCXXFLAGS) -o \$@ \$<

%.o: \$(srcdir)/%.cpp

\$(COMPILE.cc) \$(DYNAMICCPPFLAGS) \$(DYNAMICCXXFLAGS) -o \$@ \$<

Dependency rules

%.d: \$(srcdir)/%.c

@echo "generating dependency information for \$<"

@\$(SHELL) -ec '\$(GEN_DEPS.c) \$< \

| sed "s^\(\$*\)\.o[:]*\1.o \$@ : /g\" > \$@; \

[-s \$@] || rm -f \$@'

%.d: \$(srcdir)/%.cpp

@echo "generating dependency information for \$<"

@\$(SHELL) -ec '\$(GEN_DEPS.cc) \$< \

| sed "s^\(\$*\)\.o[:]*\1.o \$@ : /g\" > \$@; \

[-s \$@] || rm -f \$@'

Versioned libraries rules

%. \$(SO).\$(SO_TARGET_VERSION_MAJOR): %. \$(SO).\$(SO_TARGET_VERSION)

\$(RM) \$@ && ln -s \${<F} \$@

%. \$(SO): %. \$(SO).\$(SO_TARGET_VERSION_MAJOR)

\$(RM) \$@ && ln -s \${*F}. \$(SO).\$(SO_TARGET_VERSION) \$@

Bind internal references

LDflags that pkgdata will use

BIR_LDFLAGS= -Wl,-Bsymbolic

Dependencies [i.e. map files] for the final library

BIR_DEPS=

Remove shared library 's'

STATIC_PREFIX_WHEN_USED =

STATIC_PREFIX =

End BSD-specific setup

1.82 libjpeg 9d

1.82.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.82.2 Available under license :

The Independent JPEG Group's JPEG software

=====

README for release 9c of 14-Jan-2018

=====

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DOCUMENTATION ROADMAP

=====

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
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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 grayscale images.

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

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

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

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

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the

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These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

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 (now expired), 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.

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 PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. 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 introduced 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.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

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/jpegsr9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

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

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

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

=====

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

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

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

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously 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 ijj.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously 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.

IJJ 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.)

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.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

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

No license file was found, but licenses were detected in source scan.

```
/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules.  These declarations are private to the DCT managers
 * (jcdctmgr.c, jdctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */
```

Found in path(s):

* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdct.h

1.83 libjpeg 8b

1.83.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 1997-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */
```

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h

No license file was found, but licenses were detected in source scan.

```
/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
```

* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jinclude.h

No license file was found, but licenses were detected in source scan.

/*

* jmemnobs.c

*

* Copyright (C) 1992-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().

* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.

* Note that the max_memory_to_use option is ignored by this implementation.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c

No license file was found, but licenses were detected in source scan.

/*

* wrbmp.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in Microsoft "BMP"

* format (MS Windows 3.x and OS/2 1.x flavors).

* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*

* jcmaint.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2003-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcmaint.c
No license file was found, but licenses were detected in source scan.

/*

* rdtarga.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*

* Based on code contributed by Lee Daniel Crocker.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/rdtarga.c

No license file was found, but licenses were detected in source scan.

/*

* jdmarker.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2009-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to decode JPEG datastream markers.

* Most of the complexity arises from our desire to support input

* suspension: if not all of the data for a marker is available,

* we must exit back to the application. On resumption, we reprocess

* the marker.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdmarker.c

No license file was found, but licenses were detected in source scan.

/*

* cdjpeg.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains common support routines used by the IJG application

* programs (cjpeg, djpeg, jpegtran).

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c

No license file was found, but licenses were detected in source scan.

/*

* jmemsys.h

*

* Copyright (C) 1992-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

```
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
*
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
```

No license file was found, but licenses were detected in source scan.

```
/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009-2017 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/
```

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/rdppm.c

No license file was found, but licenses were detected in source scan.

/*

* jversion.h

*

* Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains software version identification.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h

No license file was found, but licenses were detected in source scan.

/*

* jfdctfst.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2003-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a fast, not so accurate integer implementation of the

* forward DCT (Discrete Cosine Transform).

*

* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT

* on each column. Direct algorithms are also available, but they are

* much more complex and seem not to be any faster when reduced to code.

*

* This implementation is based on Arai, Agui, and Nakajima's algorithm for

* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in

* Japanese, but the algorithm is described in the Pennebaker & Mitchell

* JPEG textbook (see REFERENCES section in file README). The following code

* is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is

* possible to arrange the computation so that many of the multiplies are

* simple scalings of the final outputs. These multiplies can then be

* folded into the multiplications or divisions by the JPEG quantization

* table entries. The AA&N method leaves only 5 multiplies and 29 adds

* to be done in the DCT itself.

* The primary disadvantage of this method is that with fixed-point math,

* accuracy is lost due to imprecise representation of the scaled

* quantization values. The smaller the quantization table entry, the less

- * precise the scaled value, so this implementation does worse with high-
- * quality-setting files than with low-quality ones.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c

No license file was found, but licenses were detected in source scan.

/*

* jcdctmgr.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2003-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the forward-DCT management logic.

* This code selects a particular DCT implementation to be used,

* and it performs related housekeeping chores including coefficient

* quantization.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c

No license file was found, but licenses were detected in source scan.

/*

* jutils.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2009-2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains tables and miscellaneous utility routines needed

* for both compression and decompression.

* Note we prefix all global names with "j" to minimize conflicts with

* a surrounding application.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c

No license file was found, but licenses were detected in source scan.

/*

* jdatasrc.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2009-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c

No license file was found, but licenses were detected in source scan.

/*

* jdhuft.c

*/

* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdhuft.c

No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software

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README for release 9c of 14-Jan-2018

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This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

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

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 grayscale images.

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

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

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

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

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

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES

=====

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)

2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

- (1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

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 (now expired), 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.

REFERENCES

=====

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

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. 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 introduced 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.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

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.v9c.tar.gz>, and in Windows-compatible

"zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

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

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

ACKNOWLEDGMENTS

=====

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

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

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

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously 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.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

=====

The ISO/IEC JTC1/SC29/WG1 standards committee (previously 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.)

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.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other

institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

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

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/README

No license file was found, but licenses were detected in source scan.

/*

* jdapimin.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2009-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface code for the decompression half

* of the JPEG library. These are the "minimum" API routines that may be

* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*

* jdpostct.c

/*

* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*

* wrtle.c

/*

* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/wrrle.c

No license file was found, but licenses were detected in source scan.

/*

* jerror.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2012-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains simple error-reporting and trace-message routines.

* These are suitable for Unix-like systems and others where writing to

* stderr is the right thing to do. Many applications will want to replace

* some or all of these routines.

*

* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,

* you get a Windows-specific hack to display error messages in a dialog box.

* It ain't much, but it beats dropping error messages into the bit bucket,

* which is what happens to output to stderr under most Windows C compilers.

*

* These routines are used by both the compression and decompression code.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jerror.c

No license file was found, but licenses were detected in source scan.

/*

* jcapimin.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2003-2010 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface code for the compression half

* of the JPEG library. These are the "minimum" API routines that may be

* needed in either the normal full-compression case or the transcoding-only

* case.

*

* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcapimin.c

No license file was found, but licenses were detected in source scan.

/*

* rdcolmap.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file implements djpeg's "-map file" switch. It reads a source image

* and constructs a colormap to be supplied to the JPEG decompressor.

*

* Currently, these file formats are supported for the map file:

* GIF: the contents of the GIF's global colormap are used.

* PPM (either text or raw flavor): the entire file is read and

* each unique pixel value is entered in the map.

* Note that reading a large PPM file will be horrendously slow.

* Typically, a PPM-format map file should contain just one pixel

* of each desired color. Such a file can be extracted from an

* ordinary image PPM file with ppmtomap(1).

*

* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not

* currently implemented.

*/

/* Portions of this code are based on the PBMPLUS library, which is:

**

** Copyright (C) 1988 by Jef Poskanzer.

**

** Permission to use, copy, modify, and distribute this software and its

** documentation for any purpose and without fee is hereby granted, provided

** that the above copyright notice appear in all copies and that both that

** copyright notice and this permission notice appear in supporting

** documentation. This software is provided "as is" without express or

** implied warranty.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c

No license file was found, but licenses were detected in source scan.

```
/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2015-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */
```

Found in path(s):

```
*/opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */
```

Found in path(s):

```
*/opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcprepct.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * transupp.h
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
```

```
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/transupp.h
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* jmemmgr.c
```

```
*
```

```
* Copyright (C) 1991-1997, Thomas G. Lane.
```

```
* Modified 2011-2012 by Guido Vollbeding.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains the JPEG system-independent memory management
```

```
* routines. This code is usable across a wide variety of machines; most
```

```
* of the system dependencies have been isolated in a separate file.
```

```
* The major functions provided here are:
```

```
* * pool-based allocation and freeing of memory;
```

```
* * policy decisions about how to divide available memory among the  
* virtual arrays;
```

```
* * control logic for swapping virtual arrays between main memory and  
* backing storage.
```

```
* The separate system-dependent file provides the actual backing-storage
```

```
* access code, and it contains the policy decision about how much total
```

```
* main memory to use.
```

```
* This file is system-dependent in the sense that some of its functions
```

```
* are unnecessary in some systems. For example, if there is enough virtual
```

```
* memory so that backing storage will never be used, much of the virtual
```

```
* array control logic could be removed. (Of course, if you have that much
```

```
* memory then you shouldn't care about a little bit of unused code...)
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c
```

No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2003-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jfdctflt.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
```

```

* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
*****
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that. *
*****
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

```

Found in path(s):

```

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/rdgif.c
No license file was found, but licenses were detected in source scan.

```

```

/*
* jdmerge.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* R = Y + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr
* B = Y + K4 * Cb
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCC => RGB color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.

```

- * No scaling needed at upsample time.
- * Corner-aligned (non-CCIR601) sampling alignment.
- * Other special cases could be added, but in most applications these are
- * the only common cases. (For uncommon cases we fall back on the more
- * general code in jdsample.c and jdcolor.c.)
- */

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdmerge.c

No license file was found, but licenses were detected in source scan.

/*

* jmemansi.c

*

* Copyright (C) 1992-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides a simple generic implementation of the system-

* dependent portion of the JPEG memory manager. This implementation

* assumes that you have the ANSI-standard library routine tmpfile().

* Also, the problem of determining the amount of memory available

* is shoved onto the user.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jmemansi.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpeg" and "djpeg") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY

=====

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jpegim.c Application program interface: core routines for compression.
jpegstd.c Application program interface: standard compression.
jdatimin.c Application program interface: core routines for decompression.
jdatistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jtparam.c Compression parameter setting helper routines.
jctrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmainct.c Main buffer controller (preprocessor => JPEG compressor).
jcprepc.c Preprocessor buffer controller.
jccoefct.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.

jcsample.c Downsampling.
jcdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jhuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoeftc.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jdarith.c Arithmetic entropy decoding.
jddctmgr.c IDCT manager (IDCT implementation selection & control).
jidctint.c Inverse DCT using slow-but-accurate integer method.
jidctfst.c Inverse DCT using faster, less accurate integer method.
jidctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jquant1.c One-pass color quantization using a fixed-spacing colormap.
jquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c Standard error handling routines (application replaceable).
jmemmgr.c System-independent (more or less) memory management code.
jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c "No backing store": assumes adequate virtual memory exists.
jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c Makes temporary files with program-generated file names.
jmemdos.c Custom implementation for MS-DOS (16-bit environment only):

can use extended and expanded memory as well as temp files.
jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use).
On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

=====

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c Code to process some of cjpeg's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rdppm.c PPM/PGM file input.
rdrlc.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.

wrrle.c Utah RLE file output.
wrtarga.c Targa file output.

RDJPGCOM/WRJPGCOM

=====

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

=====

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
ckconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak*.* Sample makefiles for particular systems.
jconfig.* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
libjpeg.pc.in libjpeg.pc pkg-config file input for configure.
aclocal.m4 M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*.* Source and comparison files for confidence test.

These are binary image files, NOT text files.

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/filelist.txt

No license file was found, but licenses were detected in source scan.

/*

* jdapistd.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c

No license file was found, but licenses were detected in source scan.

/*

* jerror.h

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 1997-2012 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jerror.h

No license file was found, but licenses were detected in source scan.

/*

* jidctflt.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2010-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a floating-point implementation of the

* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

* must also perform dequantization of the input coefficients.

*

* This implementation should be more accurate than either of the integer

* IDCT implementations. However, it may not give the same results on all

* machines because of differences in roundoff behavior. Speed will depend

* on the hardware's floating point capacity.

*

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT

* on each row (or vice versa, but it's more convenient to emit a row at

* a time). Direct algorithms are also available, but they are much more

* complex and seem not to be any faster when reduced to code.

*

* This implementation is based on Arai, Agui, and Nakajima's algorithm for

* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in

* Japanese, but the algorithm is described in the Pennebaker & Mitchell

* JPEG textbook (see REFERENCES section in file README). The following code

* is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is

* possible to arrange the computation so that many of the multiplies are

* simple scalings of the final outputs. These multiplies can then be

* folded into the multiplications or divisions by the JPEG quantization

* table entries. The AA&N method leaves only 5 multiplies and 29 adds

* to be done in the DCT itself.

* The primary disadvantage of this method is that with a fixed-point

* implementation, accuracy is lost due to imprecise representation of the

* scaled quantization values. However, that problem does not arise if

* we use floating point arithmetic.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jidctflt.c

No license file was found, but licenses were detected in source scan.

/*

* jdatadst.c

```
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage.  If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdatadst.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
*
* Logically, this code belongs in jcmaster.c.  It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcinit.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
*/
```

```

* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
*
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
* that more space is left over by reducing max_memory_to_use.
*
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
*   FSpDelete   -> HDelete
*   FSpGetFInfo -> HGetFInfo
*   FSpCreate   -> HCreate
*   FSpOpenDF   -> HOpen   *** Note: not HOpenDF ***
*   FSpMakeFSSpec -> (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jdcolor.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.
```

IJG JPEG LIBRARY: CODING RULES

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This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see `jpeg/doc/cstyle.ms.tbl.Z`, or `cstyle.txt.Z` for those without `nroff/tbl`).

Block comments should be laid out thusly:

```
/*
 * Block comments in this style.
 */
```

We indent statements in K&R style, e.g.,

```
if (test) {
    then-part;
} else {
    else-part;
}
```

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., `multi_word_name` (not `multiWordName`). Preprocessor symbols and enum constants

are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
```

which is used like this:

```
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say,

this is brain-damaged. Always use the `SIZEOF()` macro in place of `sizeof()`, so that the result is guaranteed to be of type `size_t`.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when `NEED_SHORT_EXTERNAL_NAMES` is set.
3. Don't use global variables; anything that must be used in another module should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, `structure.txt`).
5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as `cjpeg.c` and `djpeg.c`, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in `cjpeg/djpeg` but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* ckconfig.c
```

```
*
```

```
* Copyright (C) 1991-1994, Thomas G. Lane.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/ckconfig.c

No license file was found, but licenses were detected in source scan.

/*

* jcapistd.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface code for the compression half

* of the JPEG library. These are the "standard" API routines that are

* used in the normal full-compression case. They are not used by a

* transcoding-only application. Note that if an application links in

* jpeg_start_compress, it will end up linking in the entire compressor.

* We thus must separate this file from jcapimin.c to avoid linking the

* whole compression library into a transcoder.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcapistd.c

No license file was found, but licenses were detected in source scan.

/*

* jcarith.c

*

* Developed 1997-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains portable arithmetic entropy encoding routines for JPEG

* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

*

* Both sequential and progressive modes are supported in this single module.

*

* Suspension is not currently supported in this module.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.c

No license file was found, but licenses were detected in source scan.

/*

* jaricom.c

*
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
* in the JBIG spec, ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jaricom.c

No license file was found, but licenses were detected in source scan.

/*

* jquant2.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains 2-pass color quantization (color mapping) routines.

* These routines provide selection of a custom color map for an image,

* followed by mapping of the image to that color map, with optional

* Floyd-Steinberg dithering.

* It is also possible to use just the second pass to map to an arbitrary

* externally-given color map.

*

* Note: ordered dithering is not supported, since there isn't any fast

* way to compute intercolor distances; it's unclear that ordered dither's

* fundamental assumptions even hold with an irregularly spaced color map.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jquant2.c

No license file was found, but licenses were detected in source scan.

/*

* wrtarga.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
* cjpeg.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2003-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 2009-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/cderror.h
No license file was found, but licenses were detected in source scan.

/*
* jcomapi.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface routines that are used for both
* compression and decompression.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
* jdtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* Modified 2000-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*

```
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/
```

Found in path(s):

```
*/opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/rdrle.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jcmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2003-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write JPEG datastream markers.
*/
```

Found in path(s):

```
*/opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcmarker.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modification developed 2003-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
```

* forward DCT (Discrete Cosine Transform).

*

* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT

* on each column. Direct algorithms are also available, but they are

* much more complex and seem not to be any faster when reduced to code.

*

* This implementation is based on an algorithm described in

* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT

* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,

* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

* The primary algorithm described there uses 11 multiplies and 29 adds.

* We use their alternate method with 12 multiplies and 32 adds.

* The advantage of this method is that no data path contains more than one

* multiplication; this allows a very simple and accurate implementation in

* scaled fixed-point arithmetic, with a minimal number of shifts.

*

* We also provide FDCT routines with various input sample block sizes for

* direct resolution reduction or enlargement and for direct resolving the

* common 2x1 and 1x2 subsampling cases without additional resampling: NxN

* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.

*

* For N<8 we fill the remaining block coefficients with zero.

* For N>8 we apply a partial N-point FDCT on the input samples, computing

* just the lower 8 frequency coefficients and discarding the rest.

*

* We must scale the output coefficients of the N-point FDCT appropriately

* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling

* is folded into the constant multipliers (pass 2) and/or final/initial

* shifting.

*

* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases

* since there would be too many additional constants to pre-calculate.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jfdctint.c

No license file was found, but licenses were detected in source scan.

/*

* rdjpgcom.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 2009 by Bill Allombert, Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a very simple stand-alone application that displays

* the text in COM (comment) markers in a JFIF file.

- * This may be useful as an example of the minimum logic needed to parse
- * JPEG markers.
- */

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c

No license file was found, but licenses were detected in source scan.

/*

* jpegtran.c

*

* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a command-line user interface for JPEG transcoding.

* It is very similar to cjpeg.c, and partly to djpeg.c, but provides

* lossless transcoding between different JPEG file formats. It also

* provides some lossless and sort-of-lossless transformations of JPEG data.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jpegtran.c

No license file was found, but licenses were detected in source scan.

/*

* jddctmgr.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the inverse-DCT management logic.

* This code selects a particular IDCT implementation to be used,

* and it performs related housekeeping chores. No code in this file

* is executed per IDCT step, only during output pass setup.

*

* Note that the IDCT routines are responsible for performing coefficient

* dequantization as well as the IDCT proper. This module sets up the

* dequantization multiplier table needed by the IDCT routine.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jddctmgr.c

No license file was found, but licenses were detected in source scan.

/*


```
* djpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* jmorecfg.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jmorecfg.h
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* jquant1.c
```

*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

- * A subroutine library for JPEG compression and decompression.
- * cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.
3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:

- * Color space conversion (e.g., RGB to YCbCr).
- * Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:

- * MCU assembly, DCT, quantization.
- * Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to `fwrite()`, but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:

- * Entropy decoding (sequential or progressive, Huffman or arithmetic).
- * Dequantization, inverse DCT, MCU disassembly.

Postprocessing:

- * Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- * Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [currently it does not].
- * Optional color quantization (e.g., reduction to 256 colors).
- * Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (`block_size-sample`) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the

compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see `jdatadst.c`, which implements the external interface specified by struct `jpeg_destination_mgr`, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might

have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.

The individual processing modules to be used in this run are selected and given initialization calls.

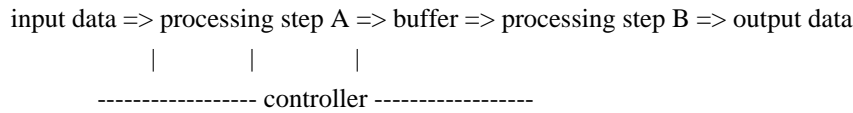
1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself

appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:



The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

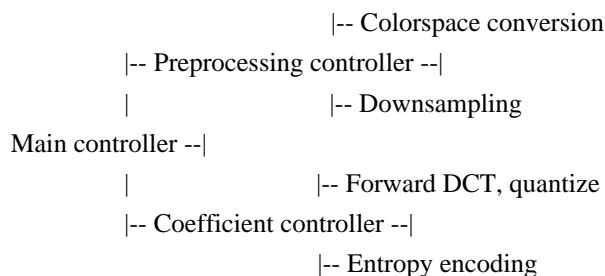
The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

- * Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
- * In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:



This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One

or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

- * Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.
- * Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.
- * Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.
- * Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as V_{max} pixel rows of each component before downsampling, and V_k sample rows afterwards (remember V_k differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of `block_size` samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of `block_size` rows).
- * Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.
- * Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)
- * Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder

during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

- * Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.
- * Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).
- * Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.
- * Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).
- * Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.
- * Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
                |-- Entropy decoding
|-- Coefficient controller --|
|                            |-- Dequantize, Inverse DCT
```

```

Main controller --|
                  |-- Upsampling
|-- Postprocessing controller --| |-- Colorspace conversion
                                |-- Color quantization
                                |-- Color precision reduction

```

As before, this diagram also represents typical control flow. The objects shown are:

* **Main controller:** buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* **Coefficient controller:** buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* **Entropy decoding:** Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* **Dequantization and inverse DCT:** like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* **Postprocessing controller:** buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* **Upsampling:** restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module

also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: `jdinput.c` controls only input-side processing, while `jdmaster.c` handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls `jpeg_consume_input()`; otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See `libjpeg.txt` for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. `jpeg_consume_input()` is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the `cinfo` data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be ≥ 0 . This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

- * Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
- * Indexing doesn't require multiplication; this is a performance win on many machines.
- * Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
- * The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore,

we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment).

We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer

must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling `jpeg_finish_compress()` will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever `malloc/free` are slow (as they often are).

The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

- * JPOOL_PERMANENT lasts until master record is destroyed
- * JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
 - * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
 - * Pool allocation heuristics may differ for large and small objects.Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation

routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their `jinit_xxx` routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. `realize_virt_arrays` will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the `realize_virt_arrays` computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing `realize_virt_arrays` to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in `jdcoefct.c` for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (`jmemmgr.c`) and a "back end" that contains only the code likely to change across systems. All of the memory management methods

outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only

find out the true image height at the end of the first scan.

We could read these files as follows:

1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:

1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/structure.txt

No license file was found, but licenses were detected in source scan.

```
/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least
 * one row group's worth of pixels above and below the passed-in data;
 * the caller will create dummy rows at image top and bottom by replicating
 * the first or last real pixel row.
 *
 * An excellent reference for image resampling is
 * Digital Image Warping, George Wolberg, 1990.
 * Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
 *
 * The downsampling algorithm used here is a simple average of the source
 * pixels covered by the output pixel. The hi-falutin sampling literature
 * refers to this as a "box filter". In general the characteristics of a box
 * filter are not very good, but for the specific cases we normally use (1:1
 * and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
 * nearly so bad. If you intend to use other sampling ratios, you'd be well
 * advised to improve this code.
 *
 * A simple input-smoothing capability is provided. This is mainly intended
 * for cleaning up color-dithered GIF input files (if you find it inadequate,
 * we suggest using an external filtering program such as pnmconvol). When
 * enabled, each input pixel P is replaced by a weighted sum of itself and its
 * eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
 * where SF = (smoothing_factor / 1024).
 * Currently, smoothing is only supported for 2h2v sampling factors.
 */
```

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcsample.c

No license file was found, but licenses were detected in source scan.

/*

* cdjpeg.h

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains common declarations for the sample applications

* cjpeg and djpeg. It is NOT used by the core JPEG library.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h

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/*

* jccolor.c

*

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*

* This file contains input colorspace conversion routines.

*/

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USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists.

The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW

=====

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions **not** provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

- * Hierarchical storage
- * Lossless JPEG
- * DNL marker
- * Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

The rough outline of a JPEG compression operation is:

```
Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
    jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object
```

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to `jpeg_write_scanlines()` from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

```
Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
    jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object
```

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors

can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to `jpeg_read_scanlines()`.

It is possible to abort an incomplete compression or decompression operation by calling `jpeg_abort()`; or, if you do not need to retain the JPEG object, simply release it by calling `jpeg_destroy()`.

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as `jpeg_destroy()` can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE

=====

Data formats

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.

A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for

example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the

application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_width Width of image, in pixels
image_height Height of image, in pixels
input_components Number of color channels (samples per pixel)
in_color_space Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */  
cinfo.image_height = Height;
```

```
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like

```
"while (cinfo.next_scanline < cinfo.image_height)".
```

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- * If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- * If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.

jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will

not happen.

It is an error to call `jpeg_finish_compress()` before writing the necessary total number of scanlines. If you wish to abort compression, call `jpeg_abort()` as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call `jpeg_set_defaults()` to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling `jpeg_destroy_compress()`. This will free all subsidiary memory (regardless of the previous state of the object). Or you can call `jpeg_destroy()`, which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, `jpeg_destroy()` should be passed a `j_common_ptr`.)

If you allocated the `jpeg_compress_struct` structure from `malloc()`, freeing it is your responsibility --- `jpeg_destroy()` won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call

jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
```

```

...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);

```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

- * A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
- * Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`. If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. `jpeg_start_decompress(...)`;

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

```
output_width  image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap      the selected colormap, if any
actual_number_of_colors number of entries in colormap
```

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

```
6. while (scan lines remain to be read)
    jpeg_read_scanlines(...);
```

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the

whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call `jpeg_finish_decompress()` to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling `jpeg_destroy_decompress()` or `jpeg_destroy()`. The previous discussion of destroying compression objects applies here too.

Typical code:

```
jpeg_destroy_decompress(&cinfo);
```

9. Aborting.

You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file `jpeglib.h` to obtain declarations of data types and routines. Before including `jpeglib.h`, include system headers that define at least the typedefs `FILE` and `size_t`. On ANSI-conforming systems, including `<stdio.h>` is sufficient; on older Unix systems, you may need `<sys/types.h>` to define `size_t`.

If the application needs to refer to individual JPEG library error codes, also include `jerror.h` to define those symbols.

`jpeglib.h` indirectly includes the files `jconfig.h` and `jmorecfg.h`. If you are installing the JPEG header files in a system directory, you will want to install all four files: `jpeglib.h`, `jerror.h`, `jconfig.h`, `jmorecfg.h`.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("`libjpeg.a`", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build `libjpeg.a` automatically (see `install.txt`).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is **not** guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the `jmemdos.c` memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See `cjpeg.c` or `djpeg.c` for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the `stdio` library: only the default source/destination managers and error handler need it. You can use the library in a `stdio`-less environment if you replace those modules and use `jmemnobs.c` (or another memory manager of your own devising). More info about the minimum system library requirements may be found in `jinclde.h`.

ADVANCED FEATURES

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Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call `jpeg_set_defaults()` first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling `cinfo` fields directly.

The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`

This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`

Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`

Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`

Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is `TRUE`, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents

very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is `FALSE`, but other decoders may not be.

`jpeg_set_linear_quality` (`j_compress_ptr` cinfo, int `scale_factor`,
boolean `force_baseline`)

Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEG spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. `force_baseline` again constrains the computed table entries to 1..255.

int `jpeg_quality_scaling` (int `quality`)

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

`jpeg_default_qtables` (`j_compress_ptr` cinfo, boolean `force_baseline`)

Set default quantization tables with linear `q_scale_factor[]` values (see below).

`jpeg_add_quant_table` (`j_compress_ptr` cinfo, int `which_tbl`,
const unsigned int *`basic_table`,
int `scale_factor`, boolean `force_baseline`)

Allows an arbitrary quantization table to be created. `which_tbl` indicates which table slot to fill. `basic_table` points to an array of 64 unsigned ints given in normal array order. These values are multiplied by `scale_factor/100` and then clamped to the range 1..65535 (or to 1..255 if `force_baseline` is `TRUE`).

CAUTION: prior to library version 6a, `jpeg_add_quant_table` expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like `"#if JPEG_LIB_VERSION >= 61"` is the right test.

`jpeg_simple_progression` (`j_compress_ptr` cinfo)

Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code

If TRUE, use arithmetic coding.

If FALSE, use Huffman coding.

int block_size

Set DCT block size. All N from 1 to 16 are possible.

Default is 8 (baseline format).

Larger values produce higher compression,
smaller values produce higher quality.

An exact DCT stage is possible with 1 or 2.

With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.

Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method

Selects the algorithm used for the DCT step. Choices are:

JDCT_ISLOW: slow but accurate integer algorithm

JDCT_IFAST: faster, less accurate integer method

JDCT_FLOAT: floating-point method

JDCT_DEFAULT: default method (normally JDCT_ISLOW)

JDCT_FASTEST: fastest method (normally JDCT_IFAST)

The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom

Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).

(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space

int num_components

The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform

Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).

Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.

Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding

TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval

int restart_in_rows

To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info

int num_scans

By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling

If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate downsampling.

Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding `do_fancy_upsampling` value in decompression.

`int smoothing_factor`

If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult `jcsample.c` for details of the smoothing algorithm. The default is zero.

`boolean write_JFIF_header`

If TRUE, a JFIF APP0 marker is emitted. `jpeg_set_defaults()` and `jpeg_set_colorspace()` set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

`UINT8 JFIF_major_version`

`UINT8 JFIF_minor_version`

The version number to be written into the JFIF marker.

`jpeg_set_defaults()` initializes the version to 1.01 (major=minor=1).

You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

`UINT8 density_unit`

`UINT16 X_density`

`UINT16 Y_density`

The resolution information to be written into the JFIF marker; not used otherwise. `density_unit` may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

`boolean write_Adobe_marker`

If TRUE, an Adobe APP14 marker is emitted. `jpeg_set_defaults()` and `jpeg_set_colorspace()` set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both `write_JFIF_header` and `write_Adobe_marker`. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

`JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]`

Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; `jpeg_add_quant_table()` is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

`int q_scale_factor[NUM_QUANT_TBLS]`

Linear quantization scaling factors (percentage, initialized 100)

for use with `jpeg_default_qtables()`.

See `rdswitch.c` and `cjpeg.c` for an example of usage.

Note that the `q_scale_factor[]` fields are the "linear" scales, so you have to convert from user-defined ratings via `jpeg_quality_scaling()`.

Here is an example code which corresponds to `cjpeg -quality 90,70`:

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]

JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by `jpeg_set_defaults()`. If you need to allocate more table structures, `jpeg_alloc_huff_table()` may be used.

Note that optimal Huffman tables can be computed for an image by setting `optimize_coding`, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by `jpeg_start_compress()`. You can also call `jpeg_calc_jpeg_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.

JDIMENSION jpeg_height

Per-component parameters are stored in the struct `cinfo.comp_info[i]` for component number `i`. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large `comp_info[]` array is allocated by `jpeg_set_defaults()`; if you choose not

to use that routine, it's up to you to allocate the array.

int component_id

The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor

int v_samp_factor

Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no

Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no

int ac_tbl_no

DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index

Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcoder.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors

If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is TRUE.

`int desired_number_of_colors`

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field).

Default 256. Ignored when the application supplies its own color map.

`boolean two_pass_quantize`

If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

`J_DITHER_MODE dither_mode`

Selects color dithering method. Supported values are:

`JDITHER_NONE` no dithering: fast, very low quality

`JDITHER_ORDERED` ordered dither: moderate speed and quality

`JDITHER_FS` Floyd-Steinberg dither: slow, high quality

Default is `JDITHER_FS`. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when `two_pass_quantize` is TRUE or when you supply an external color map, you'll get F-S dithering.)

When `quantize_colors` is TRUE, the target color map is described by the next two fields. `colormap` is set to NULL by `jpeg_read_header()`. The application can supply a color map by setting `colormap` non-NULL and setting `actual_number_of_colors` to the map size. Otherwise, `jpeg_start_decompress()` selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

`JSAMPARRAY colormap`

The color map, represented as a 2-D pixel array of `out_color_components` rows and `actual_number_of_colors` columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by `jpeg_finish_decompress()`.

Copy the colormap somewhere else first, if you want to save it.

`int actual_number_of_colors`

The number of colors in the color map.

Additional decompression parameters that the application may set include:

`J_DCT_METHOD dct_method`

Selects the algorithm used for the DCT step. Choices are the same

as described above for compression.

boolean do_fancy_upsampling

If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate upsampling.

Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing

If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without.

In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant

boolean enable_external_quant

boolean enable_2pass_quant

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings.

This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.

JDIMENSION output_height

int out_color_components Number of color components in out_color_space.

int output_components Number of color components returned.

int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data

copying. In high-quality modes, `rec_outbuf_height` is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring `rec_outbuf_height` so as to avoid data copying. (An output buffer larger than `rec_outbuf_height` lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB \Leftrightarrow YCbCr and CMYK \Leftrightarrow YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field `in_color_space`. This is transformed to the JPEG file's color space given by `jpeg_color_space`. `jpeg_set_defaults()` chooses a reasonable JPEG color space depending on `in_color_space`, but you can override this by calling `jpeg_set_colorspace()`. Of course you must select a supported transformation. `jpegcolor.c` currently supports the following transformations:

RGB \Rightarrow YCbCr

RGB \Rightarrow GRAYSCALE

RGB \Rightarrow BG_YCC

YCbCr \Rightarrow GRAYSCALE

YCbCr \Rightarrow BG_YCC

CMYK \Rightarrow YCCK

plus the null transforms: GRAYSCALE \Rightarrow GRAYSCALE, RGB \Rightarrow RGB, BG_RGB \Rightarrow BG_RGB, YCbCr \Rightarrow YCbCr, BG_YCC \Rightarrow BG_YCC, CMYK \Rightarrow CMYK, YCCK \Rightarrow YCCK, and UNKNOWN \Rightarrow UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

`jpeg_set_colorspace()` will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG

color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting `in_color_space` and `jpeg_color_space` to `JCS_YCbCr`; use `JCS_UNKNOWN`. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is `UNKNOWN`, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for `jpeg_set_colorspace()`, in `jcparam.c`, for details.

For decompression, the JPEG file's color space is given in `jpeg_color_space`, and this is transformed to the output color space `out_color_space`. `jpeg_read_header`'s setting of `jpeg_color_space` can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override `jpeg_read_header`'s guess by setting `jpeg_color_space`. `jpeg_read_header` also selects a default output color space based on (its guess of) `jpeg_color_space`; set `out_color_space` to override this. Again, you must select a supported transformation. `jdcolor.c` currently supports

`YCbCr => RGB`

`YCbCr => GRAYSCALE`

`BG_YCC => RGB`

`BG_YCC => GRAYSCALE`

`RGB => GRAYSCALE`

`GRAYSCALE => RGB`

`YCCK => CMYK`

as well as the null transforms. (Since `GRAYSCALE=>RGB` is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, `jquant2.c`, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that `jquant2.c` is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the `CMYK<=>YCCK` transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data

polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on `stderr`, followed by `exit()`. You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file `example.c` illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- * Fatal errors: the library cannot continue.
- * Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- * Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (`jerror.c`) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling `jpeg_std_error()` as usual, but then overriding some of the method pointers in the `jpeg_error_mgr` struct, as illustrated by `example.c`.

All of the error handling routines will receive a pointer to the JPEG object (a `j_common_ptr` which points to either a `jpeg_compress_struct` or a `jpeg_decompress_struct`; if you need to tell which, test the `is_decompressor` field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the `jpeg_error_mgr` struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see `example.c` for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch `client_data` at all.)

The individual methods that you might wish to override are:

```
error_exit (j_common_ptr cinfo)
```

Receives control for a fatal error. Information sufficient to generate the error message has been stored in `cinfo->err`; call `output_message` to display it. Control must NOT return to the caller; generally this routine will `exit()` or `longjmp()` somewhere. Typically you would override this routine to get rid of the `exit()` default behavior. Note that if you continue processing, you should clean up the JPEG object with `jpeg_abort()` or `jpeg_destroy()`.

`output_message (j_common_ptr cinfo)`

Actual output of any JPEG message. Override this to send messages somewhere other than `stderr`. Note that this method does not know how to generate a message, only where to send it.

`format_message (j_common_ptr cinfo, char * buffer)`

Constructs a readable error message string based on the error info stored in `cinfo->err`. This method is called by `output_message`. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

`emit_message (j_common_ptr cinfo, int msg_level)`

Decide whether or not to emit a warning or trace message; if so, calls `output_message`. The main reason for overriding this method would be to abort on warnings. `msg_level` is -1 for warnings, 0 and up for trace messages.

Only `error_exit()` and `emit_message()` are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field `err->jpeg_message_table`. The messages are numbered from 0 to `err->last_jpeg_message`, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See `jerror.h` for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer `err->addon_message_table` and the message numbers `err->first_addon_message` and `err->last_addon_message`. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications `cjpeg/djpeg` for an example of using addon messages (the addon messages are defined in `cderror.h`).

Actual invocation of the error handler is done via macros defined in `jerror.h`:

`ERREXITn(...)` for fatal errors

WARNMSn(...) for corrupt-data warnings

TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;    /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address

and total size in private fields not visible to the library.

A data destination manager provides three methods:

`init_destination (j_compress_ptr cinfo)`

Initialize destination. This is called by `jpeg_start_compress()` before any data is actually written. It must initialize `next_output_byte` and `free_in_buffer`. `free_in_buffer` must be initialized to a positive value.

`empty_output_buffer (j_compress_ptr cinfo)`

This is called whenever the buffer has filled (`free_in_buffer` reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of `next_output_byte` and `free_in_buffer`). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. `free_in_buffer` must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

`term_destination (j_compress_ptr cinfo)`

Terminate destination --- called by `jpeg_finish_compress()` after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either `next_output_byte` or `free_in_buffer` to determine how much data is in the buffer.

`term_destination()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_destination_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_dest()` or `jpeg_mem_dest()` routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;      /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's `fill_input_buffer` method must reset the pointer and

count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

`init_source (j_decompress_ptr cinfo)`

Initialize source. This is called by `jpeg_read_header()` before any data is actually read. Unlike `init_destination()`, it may leave `bytes_in_buffer` set to 0 (in which case a `fill_input_buffer()` call will occur immediately).

`fill_input_buffer (j_decompress_ptr cinfo)`

This is called whenever `bytes_in_buffer` has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of `next_input_byte` and `bytes_in_buffer`), reset the pointer & count to the start of the buffer, and return `TRUE` indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. `bytes_in_buffer` **MUST** be set to a positive value if `TRUE` is returned. A `FALSE` return should only be used when I/O suspension is desired (this mode is discussed in the next section).

`skip_input_data (j_decompress_ptr cinfo, long num_bytes)`

Skip `num_bytes` worth of data. The buffer pointer and count should be advanced over `num_bytes` input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. `bytes_in_buffer` may be zero on return. A zero or negative skip count should be treated as a no-op.

`resync_to_restart (j_decompress_ptr cinfo, int desired)`

This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, `jpeg_resync_to_restart()`. However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the `read_restart_marker()` and `jpeg_resync_to_restart()` routines in `jdmarker.c` if you think you'd like to implement your own resync procedure.

`term_source (j_decompress_ptr cinfo)`

Terminate source --- called by `jpeg_finish_decompress()` after all data has been read. Often a no-op.

For both `fill_input_buffer()` and `skip_input_data()`, there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via `ERREXIT()` or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. `jdatasrc.c` illustrates the recommended error recovery behavior.

`term_source()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_source_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_src()` or `jpeg_mem_src()` routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in `jdatasrc.c` and `jdatadst.c`.

I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the `empty_output_buffer()` or `fill_input_buffer()` routine is a no-op, merely returning `FALSE` to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an `empty_output_buffer()` routine that returns `FALSE`; typically it will not do anything else. This will cause the compressor to return to the caller of `jpeg_write_scanlines()`, with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call `jpeg_write_scanlines()` again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although `empty_output_buffer()` is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of `next_output_byte/free_in_buffer`. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call `jpeg_write_scanlines()` unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

- * At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
- * When you call `jpeg_finish_compress()`, there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling `jpeg_finish_compress()`.

A more significant restriction is that `jpeg_finish_compress()` cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during `jpeg_finish_compress()`, which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a `fill_input_buffer()` routine that simply returns `FALSE` (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

- * `jpeg_read_header()`: will return `JPEG_SUSPENDED`.
- * `jpeg_start_decompress()`: will return `FALSE`, rather than its usual `TRUE`.
- * `jpeg_read_scanlines()`: will return the number of scanlines already completed (possibly 0).
- * `jpeg_finish_decompress()`: will return `FALSE`, rather than its usual `TRUE`.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of `jpeg_read_scanlines()`, increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte/bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if `FALSE` is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement `bytes_in_buffer` to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then `skip_input_data()` must set `bytes_in_buffer` to zero and record the additional skip distance somewhere else. The decompressor will immediately call `fill_input_buffer()`, which should return `FALSE`, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within `fill_input_buffer()`; the latter is probably more efficient. If `fill_input_buffer()` knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return `TRUE` just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling `skip_input_data()`. In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on `skip_input_data`'s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having `empty_output_buffer()` or `fill_input_buffer()` set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when `fill_input_buffer()` is called, the current pointer & count indicate the backtrack restart point. Since `fill_input_buffer()` will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to `fill_input_buffer()` occurs in the same library call, and no additional input data is available, so `fill_input_buffer` must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a `skip_input_data()` call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when `fill_input_buffer()` is called, move any unconsumed data (beyond the current pointer/count) down to

the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a

recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
```

```

cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release

the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

`JPEG_REACHED_SOS`: reached an SOS marker (the start of a new scan)

`JPEG_REACHED_EOI`: reached the EOI marker (end of image)

`JPEG_ROW_COMPLETED`: completed reading one MCU row of compressed data

`JPEG_SCAN_COMPLETED`: completed reading last MCU row of current scan

`JPEG_SUSPENDED`: suspended before completing any of the above

(`JPEG_SUSPENDED` can occur only if a suspending data source is used.) This

routine can be called at any time after initializing the JPEG object. It

reads some additional data and returns when one of the indicated significant

events occurs. (If called after the EOI marker is reached, it will

immediately return `JPEG_REACHED_EOI` without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()`

whenever the output processing overtakes the input; thus, simple lockstep

display requires no direct calls to `jpeg_consume_input()`. But by adding

calls to `jpeg_consume_input()`, you can absorb data in advance of what is

being displayed. This has two benefits:

- * You can limit buildup of unprocessed data in your input buffer.
- * You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to

`jpeg_consume_input()` with your display operations and any other processing

you may be doing. To avoid wasting cycles due to backtracking, it's best to

call `jpeg_consume_input()` only after a hundred or so new bytes have arrived.

This is discussed further under "I/O suspension", above. (Note: the JPEG

library currently is not thread-safe. You must not call `jpeg_consume_input()`

from one thread of control if a different library routine is working on the

same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available

before you start a new output pass, you may as well skip the output pass

corresponding to the completed scan. This occurs for free if you pass

`cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`.

The `input_scan_number` field is simply the index of the scan currently being

consumed by the input processor. You can ensure that this is up-to-date by

emptying the input buffer just before calling `jpeg_start_output()`: call

`jpeg_consume_input()` repeatedly until it returns `JPEG_SUSPENDED` or

`JPEG_REACHED_EOI`.

The target scan number passed to `jpeg_start_output()` is saved in the

`cinfo.output_scan_number` field. The library's output processing calls

`jpeg_consume_input()` whenever the current input scan number and row within

that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
rather than quitting as soon as jpeg_input_complete() returns TRUE. This
```

arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the `JPEG_REACHED_EOI` return code from `jpeg_consume_input()`, or equivalently by testing `jpeg_input_complete()`.) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call `jpeg_finish_output()` and then start a new pass with `jpeg_start_output()`.

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting `JPEG_REACHED_SOS` returns and/or examining `cinfo.input_scan_number`. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call `jpeg_consume_input()` until it returns `JPEG_REACHED_SOS` or `JPEG_REACHED_EOI`. Or just use the next higher number as the target scan for `jpeg_start_output()`; but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, `jpeg_start_decompress()` never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

- * `jpeg_start_output()` performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
- * `jpeg_read_scanlines()`, as always, returns the number of scanlines that it was able to produce before suspending.
- * `jpeg_finish_output()` will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if `jpeg_consume_input()` has already reached the end of the file or a SOS marker beyond the target output scan.)
- * `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after `jpeg_start_decompress()` is called:

- * `dct_method` can be changed before each call to `jpeg_start_output()`. For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
- * `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst case would result in an out-of-memory failure.
- * `do_block_smoothing` can be changed before each call to `jpeg_start_output()`. This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
- * Color quantization mode can be changed under the rules described below.

You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display.

The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.
 2. Single-pass quantization to an application-supplied colormap.
Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.
 3. Two-pass quantization to a colormap chosen specifically for the image.
Selected by `cinfo.two_pass_quantize = TRUE` and `cinfo.colormap = NULL`.
(This is the default setting selected by `jpeg_read_header`, but it is probably NOT what you want for the first pass of progressive display!)
- These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call `jpeg_start_decompress()`. (If we did not require this, the `max_memory_to_use` setting would be a complete fiction.)

You do this by setting one or more of these three `cinfo` fields to `TRUE`:

`enable_1pass_quant` Fixed color cube colormap
`enable_external_quant` Externally-supplied colormap
`enable_2pass_quant` Two-pass custom colormap

All three are initialized `FALSE` by `jpeg_read_header()`. But `jpeg_start_decompress()` automatically sets `TRUE` the one selected by the current `two_pass_quantize` and `colormap` settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at `jpeg_start_decompress()` time, you can change to any enabled quantization method by setting `two_pass_quantize` and `colormap` properly just before calling `jpeg_start_output()`. The following special rules apply:

1. You must explicitly set `cinfo.colormap` to `NULL` when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call `jpeg_new_colormap()` after setting `cinfo.colormap`.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because `cinfo.colormap` will always be non-`NULL` after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to

do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during `jpeg_start_output()`, not during `jpeg_start_decompress()`.

When using two-pass quantization, `jpeg_start_output()` makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, `jpeg_start_output()` will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a `FALSE` return from `jpeg_start_output()` under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which `jpeg_start_output()` will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling `jpeg_has_multiple_scans()`, which will return a correct result at any time after `jpeg_read_header()` completes.

It is also worth noting that when you use `jpeg_consume_input()` to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager `jmemnobs.c` if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that `max_memory_to_use` is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use `jpeg_consume_input()` for all input processing, including reading the initial markers; that is, you may wish to call `jpeg_consume_input()` instead of `jpeg_read_header()` during startup. This works, but note that you must check for `JPEG_REACHED_SOS` and `JPEG_REACHED_EOI` return codes as the equivalent of `jpeg_read_header()`'s codes. Once the first SOS marker has been reached, you must call `jpeg_start_decompress()` before `jpeg_consume_input()` will consume more input; it'll just keep returning `JPEG_REACHED_SOS` until you do. If you read a

tables-only file this way, `jpeg_consume_input()` will return `JPEG_REACHED_EOI` without ever returning `JPEG_REACHED_SOS`; be sure to check for this case. If this happens, the decompressor will not read any more input until you call `jpeg_abort()` to reset it. It is OK to call `jpeg_consume_input()` even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return `JPEG_SUSPENDED`.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

- * "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
- * "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
- * "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

```
create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);
```

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman

optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set `optimize_coding = TRUE` when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See `jpeg_copy_critical_parameters()` for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The `jpeg_read_header()` call is

sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

```
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard.

COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling `jpeg_write_marker()` after `jpeg_start_compress()` and before the first call to `jpeg_write_scanlines()`. When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, `jpeg_write_marker` will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by `comment_text`:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call `jpeg_save_markers(cinfo, marker_code, length_limit)` where `marker_code` is the marker type to save, `JPEG_COM` or `JPEG_APP0+n`. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to `0xFFFF`; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in

the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by `malloc()` limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers()`; that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive
--- if you call one it overrides any previous call to the other, for the
particular marker type specified.

A simple example of an external COM processor can be found in `djpeg.c`.
Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

Raw (downsampled) image data

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of `block_size` valid samples, and there must be a multiple of `block_size` sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. Before calling `jpeg_start_compress()`, you must do the following:

- * Set `cinfo->raw_data_in` to TRUE. (It is set FALSE by `jpeg_set_defaults()`.)

This notifies the library that you will be supplying raw data.

Furthermore, set `cinfo->do_fancy_downsampling` to FALSE if you want to use

- real downsampled data. (It is set TRUE by jpeg_set_defaults().)
- * Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
- * Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

```
cinfo->comp_info[i].width_in_blocks*block_size  samples per row
cinfo->comp_info[i].height_in_blocks*block_size rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than block_size samples. An example may help here.
```

Assume 2h2v downsampling of YCbCr data, that is

```
cinfo->comp_info[0].h_samp_factor = 2  for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1  for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1  for Cr
cinfo->comp_info[2].v_samp_factor = 1
```

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual

sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of $7*16 = 112$ "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, `jpeg_write_raw_data()` will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set `cinfo->raw_data_out = TRUE` before `jpeg_start_decompress()` (it is set `FALSE` by `jpeg_read_header()`). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set `cinfo->do_fancy_upsampling = FALSE` if you want to get real downsampled data (it is set `TRUE` by `jpeg_read_header()`). Then call `jpeg_read_raw_data()` in place of `jpeg_read_scanlines()`. The decompression process is otherwise the same as usual.

`jpeg_read_raw_data()` returns one MCU row per call, and thus you must pass a buffer of at least `max_v_samp_factor*block_size` scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, `jpeg_read_raw_data()` will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do `jpeg_read_header()` as usual. But instead of calling `jpeg_start_decompress()` and `jpeg_read_scanlines()`, call `jpeg_read_coefficients()`. This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's `access_virt_barray` method (see Memory management, below, and also read `structure.txt`'s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to `jpeg_write_coefficients()`.

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the `width_in_blocks` and `height_in_blocks` fields of the component's `comp_info` entry.) This is also the data format expected by `jpeg_write_coefficients()`.

When you are done using the virtual arrays, call `jpeg_finish_decompress()` to release the array storage and return the decompression object to an idle state; or just call `jpeg_destroy()` if you don't need to reuse the object.

If you use a suspending data source, `jpeg_read_coefficients()` will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call `jpeg_read_coefficients()` to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call `jpeg_read_coefficients()` after the last `jpeg_finish_output()` call. The arrays will be available for your use until you call `jpeg_finish_decompress()`.

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

- * Create compression object
- * Set all compression parameters as necessary
- * Request virtual arrays if needed
- * `jpeg_write_coefficients()`

* jpeg_finish_compress()

* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row

group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of `jpeg_read_scanlines` or `jpeg_write_scanlines`, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct `jpeg_progress_mgr`, fill in its `progress_monitor` field with a pointer to your callback routine, and set `cinfo->progress` to point to the struct. The callback will be called whenever `cinfo->progress` is non-NULL. (This pointer is set to NULL by `jpeg_create_compress` or `jpeg_create_decompress`; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime `JPOOL_PERMANENT` will work nicely.) You can use the same callback routine for both compression and decompression.

The `jpeg_progress_mgr` struct contains four fields which are set by the library:

```
long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */
```

During any one pass, `pass_counter` increases from 0 up to (not including) `pass_limit`; the step size is usually but not necessarily 1. The `pass_limit` value may change from one pass to another. The expected total number of passes is in `total_passes`, and the number of passes already completed is in `completed_passes`. Thus the fraction of work completed may be estimated as

```
completed_passes + (pass_counter/pass_limit)
-----
total_passes
```

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, `pass_limit` can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets `total_passes` based on the assumption that there will be one more output pass if the input file end hasn't yet been read (`jpeg_input_complete()` isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that `total_passes` will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read

will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read `structure.txt`'s section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use `malloc()` and `free()` for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by `jpeg_finish_compress`, `jpeg_finish_decompress`, or `jpeg_abort`. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use `JPOOL_PERMANENT` to get storage that lasts as long as the JPEG object. Use `alloc_large` instead of `alloc_small` for anything bigger than a few Kbytes. There are also `alloc_sarray` and `alloc_barray` routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (`jmemnobs.c`), then no temporary files are used; virtual arrays are simply `malloc()`'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting `cinfo->mem->max_memory_to_use` after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before `jpeg_start_compress()` or `jpeg_start_decompress()` in order to have them counted against the max memory limit. Also keep in mind

that space allocated with `alloc_small()` is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting `max_memory_to_use`.

If you use the `jmemname.c` or `jmemdos.c` memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with `jmemdos.c`, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either `jpeg_abort()` or `jpeg_destroy()` for any active JPEG objects. A handler is not needed with `jmemnobs.c`, and shouldn't be necessary with `jmemansi.c` or `jmemmac.c` either, since the C library is supposed to take care of deleting files made with `tmpfile()`.

Memory usage

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use `jmemnobs` and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the `MEM_STATS` code in `jmemmgr.c`.

Library compile-time options

A number of compile-time options are available by modifying `jmorecfg.h`.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining `BITS_IN_JSAMPLE` as 8, 9, 10, 11, or 12.

Note that a value larger than 8 causes `JSAMPLE` to be larger than a char, so it affects the surrounding application's image data.

The sample applications `cjpeg` and `djpeg` can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit `cjpeg` or `djpeg`. (`install.txt` has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (`jpegtran`) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining `NEED_SHORT_EXTERNAL_NAMES` for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, `cjpeg` uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

char is at least 8 bits wide

short is at least 16 bits wide

int is at least 16 bits wide

long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger

than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in `jmorecfg.h`. However, you will probably have difficulty if `int` is less than 16 bits wide, since references to plain `int` abound in the code.

`char` can be either signed or unsigned, although the code runs faster if an unsigned `char` type is available. If `char` is wider than 8 bits, you will need to redefine `JOCTET` and/or provide custom data source/destination managers so that `JOCTET` represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in `cjpeg/djpeg` do have ASCII dependencies in file-header manipulation; so does `cjpeg's select_file_type()` routine.

The JPEG library does not rely heavily on the C library. In particular, C `stdio` is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (`cjpeg/djpeg` are more heavily dependent on `stdio`.) `malloc` and `free` are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining `NEED_SHORT_EXTERNAL_NAMES`.

More info about porting the code may be gleaned by reading `jconfig.txt`, `jmorecfg.h`, and `jjinclude.h`.

Notes for MS-DOS implementors

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile `cjpeg` or `djpeg` by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also `malloc` about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary

depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt

No license file was found, but licenses were detected in source scan.

/*

* jdarith.c

*

* Developed 1997-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains portable arithmetic entropy decoding routines for JPEG

* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

*

* Both sequential and progressive modes are supported in this single module.

*

* Suspension is not currently supported in this module.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c

No license file was found, but licenses were detected in source scan.

```
/*
 * transupp.c
 *
 * Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */
```

Found in path(s):

```
*/opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/transupp.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jchuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 *
 * We do not support output suspension for the progressive JPEG mode, since
 * the library currently does not allow multiple-scan files to be written
 * with output suspension.
 */
```

Found in path(s):

```
*/opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * rdswitch.c
```

*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2003-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
* jmemname.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2003-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*

* jdsample.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2002-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains upsampling routines.

*

* Upsampling input data is counted in "row groups". A row group

* is defined to be $(v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)$

* sample rows of each component. Upsampling will normally produce

* $max_v_samp_factor$ pixel rows from each row group (but this could vary

* if the upsampler is applying a scale factor of its own).

*

* An excellent reference for image resampling is

* Digital Image Warping, George Wolberg, 1990.

* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c
No license file was found, but licenses were detected in source scan.

/*

* jdmainct.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2016 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the main buffer controller for decompression.

* The main buffer lies between the JPEG decompressor proper and the

* post-processor; it holds downsampled data in the JPEG colorspace.

*

* Note that this code is bypassed in raw-data mode, since the application

* supplies the equivalent of the main buffer in that case.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdmainct.c

No license file was found, but licenses were detected in source scan.

/*

* jdct.h

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This include file contains common declarations for the forward and

* inverse DCT modules. These declarations are private to the DCT managers

* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.

* The individual DCT algorithms are kept in separate files to ease

* machine-dependent tuning (e.g., assembly coding).

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdct.h

No license file was found, but licenses were detected in source scan.

/*

* jmemdos.c

*

* Copyright (C) 1992-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides an MS-DOS-compatible implementation of the system-

* dependent portion of the JPEG memory manager. Temporary data can be

* stored in extended or expanded memory as well as in regular DOS files.

*

* If you use this file, you must be sure that NEED_FAR_POINTERS is defined

* if you compile in a small-data memory model; it should NOT be defined if

* you use a large-data memory model. This file is not recommended if you

* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.

* Also, this code will NOT work if struct fields are aligned on greater than

* 2-byte boundaries.

*

* Based on code contributed by Ge' Weijers.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jmemdos.c

No license file was found, but licenses were detected in source scan.

/*

```

* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downsampled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

```

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jidctint.c

No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.

Try doing

```
./configure
```

```
make
```

```
make test
```

If that doesn't complain, do

```
make install
```

(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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Hints for specific systems

BEFORE YOU START

=====

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE

=====

To configure the IJG code for your system, you need to create two files:

- * jconfig.h: contains values for system-dependent #define symbols.
- * Makefile: controls the compilation process.

(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:

- * On a Unix system, you can just run the "configure" script.
- * We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
- * If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script

If you are on a Unix machine, you can just type

```
./configure
```

and let the configure script construct appropriate configuration files.

If you're using "csh" on an old version of System V, you might need to type

```
sh configure
```

instead to prevent csh from trying to execute configure itself.

Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.

If you want to build libjpeg only as a static library, say

```
./configure --disable-shared
```

If you want to build libjpeg only as a shared library, say

```
./configure --disable-static
```

Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.

To force a particular compiler to be selected, use the CC option, for example

```
./configure CC='cc'
```

The same method can be used to include any unusual compiler switches.

For example, on HP-UX you probably want to say

```
./configure CC='cc -Aa'
```

to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.

You can override this by saying, for example,

```
./configure CFLAGS='-O2'
```

if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C
makefile.sas jconfig.sas Amiga, SAS C
makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C
makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc Windows, MS Visual C++
makefile.vs jconfig.vc Windows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vs jconfig.vc Windows, Visual Studio 2017 (v15)
make*.v15
makefile.b32 jconfig.vc Windows, Borland C++ 32-bit (bcc32)
makefile.mms jconfig.vms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if

there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:

```
cjpeg inputfile >outputfile
```

```
cjpeg <inputfile >outputfile
```

```
source program | cjpeg >outputfile
```

The simpler "two file" command line style is just

```
cjpeg inputfile outputfile
```

You may prefer the two-file style, particularly if you don't have pipes.

You **MUST** use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the

code to do this is rather system-dependent. We provide five different memory managers:

- * `jmemansi.c` This version uses the ANSI-standard library routine `tmpfile()`, which not all non-ANSI systems have. On some systems `tmpfile()` may put the temporary file in a non-optimal location; if you don't like what it does, use `jmemname.c`.
- * `jmemname.c` This version creates named temporary files. For anything except a Unix machine, you'll need to configure the `select_file_name()` routine appropriately; see the comments near the head of `jmemname.c`. If you use this version, define `NEED_SIGNAL_CATCHER` in `jconfig.h` to make sure the temp files are removed if the program is aborted.
- * `jmemnobs.c` (That stands for No Backing Store :-).) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.
- * `jmemdos.c` This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. **IMPORTANT:** if you use this, define `USE_MSDDOS_MEMMGR` in `jconfig.h`, and include the assembly file `jmemdosa.asm` in the programs. The supplied makefiles and `jconfig` files for 16-bit MS-DOS compilers already do both.
- * `jmemmac.c` Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the `SYSDEPMEM` variable in your makefile to equal the corresponding object file name (for example, `jmemansi.o` or `jmemansi.obj` for `jmemansi.c`).

If you have plenty of (real or virtual) main memory, just use `jmemnobs.c`.

"Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion.

If yours doesn't, try `jmemansi.c` first. If that doesn't compile, you'll have to use `jmemname.c`; be sure to adjust `select_file_name()` for local conditions. You may also need to change `unlink()` to `remove()` in `close_backing_store()`.

Except with `jmemnobs.c` or `jmemmac.c`, you need to adjust the `DEFAULT_MAX_MEM` setting to a reasonable value for your system (either by adding a `#define` for `DEFAULT_MAX_MEM` to `jconfig.h`, or by adding a `-D` switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for `cjpeg` or `djpeg` are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient

memory" failures. On most Unix machines (and other systems with virtual memory), just set `DEFAULT_MAX_MEM` to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by `jmemdos.c`.)

BUILDING THE SOFTWARE

=====

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting `#define INCOMPLETE_TYPES_BROKEN` in `jconfig.h`.

If you have trouble with missing system include files or inclusion of the wrong ones, read `jinclde.h`. This shouldn't happen if you used `configure` or `ckconfig.c` to set up `jconfig.h`.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a `getenv()` library routine, define `NO_GETENV`.

Also see the system-specific hints, below.

TESTING THE SOFTWARE

=====

As a quick test of functionality we've included a small sample image in several forms:

`testorig.jpg` Starting point for the djpeg tests.

`testimg.ppm` The output of djpeg `testorig.jpg`

`testimg.bmp` The output of djpeg `-bmp -colors 256 testorig.jpg`

`testimg.jpg` The output of cjpeg `testimg.ppm`

`testprog.jpg` Progressive-mode equivalent of `testorig.jpg`.

`testimgp.jpg` The output of cjpeg `-progressive -optimize testimg.ppm`

(The first- and second-generation `.jpg` files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the `testimg*` files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary

comparisons.

If you're using a makefile that doesn't provide the test option, run `djpeg` and `cjpeg` by hand and compare the output files to `testing*` with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce `MAX_ALLOC_CHUNK` to a value that fits in `type size_t`. Try adding `#define MAX_ALLOC_CHUNK 65520L` to `jconfig.h`. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining `ALIGN_TYPE` as long should take care of that one.

If the `cjpeg` test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define `RIGHT_SHIFT_IS_UNSIGNED`. Go back to the configuration step and run `ckconfig.c`. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through `stdin/stdout` actually works. You should get the same results from `"djpeg <testorig.jpg >out.ppm"` as from `"djpeg -outfile out.ppm testorig.jpg"`. Note that the makefiles all use the latter style and therefore do not exercise `stdin/stdout`! If this check fails, try recompiling with `USE_SETMODE` or `USE_FDOPEN` defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than `jmemnobs.c`, you should test that temporary-file usage works. Try `"djpeg -bmp -colors 256 -max 0 testorig.jpg"` and make sure its output matches `testing.bmp`. If you have any really large images handy, try compressing them with `-optimize` and/or decompressing with `-colors 256` to make sure your `DEFAULT_MAX_MEM` setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE

=====

Once you're done with the above steps, you can install the software by copying the executable files (`cjpeg`, `djpeg`, `jpegtran`, `rdjpgcom`, and `wrjpgcom`) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (`cjpeg.1`, `djpeg.1`, `jpegtran.1`, `rdjpgcom.1`, `wrjpgcom.1`) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say
make install
to install the programs and their man pages into the standard places.
(You'll probably need to be root to do this.) We recommend first saying
make -n install
to see where configure thought the files should go. You may need to edit
the Makefile, particularly if your system's conventions for man page
filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other
programs besides ours, then you need to put the four include files
jpeglib.h jerror.h jconfig.h jmorecfg.h
into your include-file directory, and put the library file libjpeg.a
(extension may vary depending on system) wherever library files go.
If you generated a Makefile with "configure", it will do what it thinks
is the right thing if you say
make install-lib

OPTIONAL STUFF

=====

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display
of percent-done progress reports. The routine provided in cdjpeg.c merely
prints percentages to stderr, but you can customize it to do something
fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster
Toolkit format) disabled, because the RLE support won't compile without the
Utah library. If you have URT version 3.1 or later, you can enable RLE
support as follows:

1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory
containing the URT .h files (typically the "include"
subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies
the directory containing the URT "librle.a" file (typically the
"lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision.
(For color, this means 8 to 12 bits per channel, of course.) If you need to

work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:

1. In `jmorecfg.h`, define `BITS_IN_JSAMPLE` as 9, 10, 11, or 12 rather than 8.
2. In `jconfig.h`, undefine `BMP_SUPPORTED`, `RLE_SUPPORTED`, and `TARGA_SUPPORTED`, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (`jpegtran`) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (`rdppm.c`) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a `maxval` greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any `maxval` regardless of the `BITS_IN_JSAMPLE` setting; incoming data is automatically rescaled to `maxval=MAXJSAMPLE` as appropriate for the `cjpeg` bit depth.

The PPM writer (`wrppm.c`) will normally write 2-byte binary PPM or PGM format, `maxval=MAXJSAMPLE`, when compiled with `BITS_IN_JSAMPLE>8`. Since this format is not yet widely supported, you can disable it by compiling `wrppm.c` with `PPM_NORAWWORD` defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of `djpeg` to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:

The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, `cjpeg` uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the `xxx_SUPPORTED` #defines in `jconfig.h` and `jmorecfg.h`. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine `JDCT_DEFAULT` or `JDCT_FASTEST` to a supported method, by adding a #define in `jconfig.h`.)

OPTIMIZATION

=====

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step.

Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the `MULTIPLYxxx` macro definitions in `jdct.h`. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining `SHORTxSHORT_32` is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing `cjpeg` on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific `jconfig` files already contain #define switches to select appropriate `MULTIPLYxxx` definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add

"#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by jpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS

=====

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

```
CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o
```

Also add a new line 'c.o.; \$(cc) \$< \$(cflags) -c -o \$@'. Remove the lines '\$(RM) libjpeg.o' and '\$(AR2) libjpeg.o' and the 'jconfig.h'

dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmемansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlb.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlb.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the

space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

```
"#pragma novector" just before the loop
for (i = 1; i <= (int) htbl->bits[i]; i++)
    huffsize[p++] = (char) i;
```

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jd Huff.c).

[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example

available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.

The CodeWarrior source code is available from <http://www.pobox.com/~jsam>.

2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file `/info-mac/dev/src/jpeg-convert-c.hqx`.

`jmemmac.c` is the recommended memory manager back end for Macintosh. It uses `NewPtr/DisposePtr` instead of `malloc/free`, and has a Mac-specific implementation of `jpeg_mem_available()`. It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in `jmemmac.c` if you need to run it on System 6.) NOTE that `USE_MAC_MEMMGR` must be defined in `jconfig.h` to use `jmemmac.c`.

You can also use `jmemnobs.c`, if you don't care about handling images larger than available memory. If you use any memory manager back end other than `jmemmac.c`, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of `malloc/free`. (For instance, `free()` may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because `jmemmgr.c` already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining `USE_CCOMMAND`. You'll also need to define `TWO_FILE_COMMANDLINE` to avoid `stdin/stdout`. This means that when using the `cjpeg/djpeg` programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps `USE_FDOPEN` or `USE_SETMODE` would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

The supplied configuration file `jconfig.mac` can be used for your `jconfig.h`; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script `makeproj.mac` to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define `USE_CCOMMAND` in `jconfig.h` so that the `ccommand()` routine is called. You must also define `TWO_FILE_COMMANDLINE` because `stdin/stdout` don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

`jconfig.mac` should work as a `jconfig.h` configuration file for Think C, but the `makeproj.mac` AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's `cc` version 1.31 has a rather nasty optimization bug. Don't use `-O` if you have that compiler version. (Use `"cc -V"` to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile `cjpeg` or `djpeg` by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that `NEED_FAR_POINTERS` is defined in `jconfig.h` if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and `jconfig` files for Borland and Microsoft C compile in medium model and define `NEED_FAR_POINTERS`.)

The DOS-specific memory manager, `jmemdos.c`, should be used if possible.

It needs some assembly-code routines which are in `jmemdosa.asm`; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for `jmemdosa` by FTP from `ftp.uu.net:/graphics/jpeg/jdosaobj.zip`. (DOS-oriented distributions of the IJG source code often include these object files.)

When using `jmemdos.c`, `jconfig.h` must define `USE_MSDOS_MEMMGR` and must set `MAX_ALLOC_CHUNK` to less than 64K (65520L is a typical value). If your C library's far-heap `malloc()` can't allocate blocks that large, reduce `MAX_ALLOC_CHUNK` to whatever it can handle.

If you can't use `jmemdos.c` for some reason --- for example, because you don't have an assembler to assemble `jmemdosa.asm` --- you'll have to fall back to `jmemansi.c` or `jmemname.c`. You'll probably still need to set `MAX_ALLOC_CHUNK` in `jconfig.h`, because most DOS C libraries won't `malloc()` more than 64K at a time. **IMPORTANT:** if you use `jmemansi.c` or `jmemname.c`, you will have to compile in a large-data memory model in order to get the right `stdio` library. Too bad.

`wrjpgcom` needs to be compiled in large model, because it `malloc()`s a 64KB work area to hold the comment text. If your C library's `malloc` can't handle that, reduce `MAX_COM_LENGTH` as necessary in `wrjpgcom.c`.

Most MS-DOS compilers treat `stdin/stdout` as text files, so you must use two-file command line style. But if your compiler has either `fdopen()` or `setmode()`, you can use one-file style if you like. To do this, define `USE_SETMODE` or `USE_FDOPEN` so that `stdin/stdout` will be set to binary mode. (`USE_SETMODE` seems to work with more DOS compilers than `USE_FDOPEN`.) You should test that I/O through `stdin/stdout` produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use `stdin/stdout`.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define `NEED_FAR_POINTERS`, and do NOT use `jmemdos.c`. Use `jmemnobs.c` if the environment supplies adequate virtual memory, otherwise use `jmemansi.c` or `jmemname.c`.

You'll still need to be careful about binary I/O through `stdin/stdout`. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "\$ (RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows

include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

```
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
```

(This is already in jconfig.vc, by the way.)

windef.h contains the declarations

```
#define far
#define FAR far
```

Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h.

(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:

1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line

```
fprintf(stderr, "%s\n", buffer);
```

(in output_message in jerror.c) with

```
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
```

It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is `jmemnobs.c`; in other words, let Windows do any virtual memory management needed. You should NOT use `jmemdos.c` nor `jmemdosa.asm` under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
```

into `jconfig.h` to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.)

`jmemnobs.c` works without modification in large or flat memory models, but to use medium model, you need to modify its `jpeg_get_large` and `jpeg_free_large` routines to allocate far memory. In any case, you might like to replace its calls to `malloc` and `free` with direct calls on Windows memory allocation functions.

You may also want to modify `jdatasrc.c` and `jdatadst.c` to use Windows file operations rather than `fread/fwrite`. This is only necessary if your C compiler doesn't provide a competent implementation of C `stdio` functions.

You might want to tweak the `RGB_xxx` macros in `jmorecfg.h` so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications `cjpeg/djpeg`, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So `jdatasrc.c` and `jdatadst.c` don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make `jdatasrc.c/jdatadst.c` part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros `GLOBAL()` and `EXTERN()` to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify `METHODDEF()` and `JMETHOD()` to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in `jmorecfg.h`. Typical definitions for a 16-bit DLL are:

```
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) \
type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

```
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
```

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

```
-Ot -Og
-Ot -Op
-Ot -Om
```

So try backing off on optimization if you see such a problem. (Are there

several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" { ... } around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the command prompt, change to the main directory and execute the command line
NMAKE /f makefile.vs setup-vc6
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
(If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build

the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the Developer Command Prompt, change to the main directory and execute the command line
NMAKE /f makefile.vs setup-v15
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
 - a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
 - b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.

If you are using configure, you can do this by saying

```
./configure RANLIB='ar -ts'
```

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/install.txt
No license file was found, but licenses were detected in source scan.

```
/*
* jcmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/
```

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcmaster.c
No license file was found, but licenses were detected in source scan.

```
/*
* jctrans.c
*
* Copyright (C) 1995-1998, Thomas G. Lane.
* Modified 2000-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/
```

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jctrans.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jdcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdcoefct.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jdinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuft.c, and jdarith.c.
 */
```

Found in path(s):

```
* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdinput.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jcparam.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2003-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
```

```
*
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/
```

Found in path(s):

```
*/opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
*/ jconfig.txt
```

```
/*
```

```
*/ Copyright (C) 1991-1994, Thomas G. Lane.
```

```
*/ Modified 2009-2013 by Guido Vollbeding.
```

```
*/ This file is part of the Independent JPEG Group's software.
```

```
*/ For conditions of distribution and use, see the accompanying README file.
```

```
/*
```

```
*/ This file documents the configuration options that are required to
```

```
*/ customize the JPEG software for a particular system.
```

```
/*
```

```
*/ The actual configuration options for a particular installation are stored
```

```
*/ in jconfig.h. On many machines, jconfig.h can be generated automatically
```

```
*/ or copied from one of the "canned" jconfig files that we supply. But if
```

```
*/ you need to generate a jconfig.h file by hand, this file tells you how.
```

```
/*
```

```
*/ DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
```

```
*/ EDIT A COPY NAMED JCONFIG.H.
```

```
*/
```

```
/*
```

```
*/ These symbols indicate the properties of your machine or compiler.
```

```
*/ #define the symbol if yes, #undef it if no.
```

```
*/
```

```
/* Does your compiler support function prototypes?
```

```
*/ (If not, you also need to use ansi2knr, see install.txt)
```

```
*/
```

```
#define HAVE_PROTOTYPES
```

```
/* Does your compiler support the declaration "unsigned char" ?
```

```
*/ How about "unsigned short" ?
```

```
*/
```

```
#define HAVE_UNSIGNED_CHAR
```

```
#define HAVE_UNSIGNED_SHORT
```

```
/* Define "void" as "char" if your compiler doesn't know about type void.
```

```

* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to

```



```

* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

```

```

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

```

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt

No license file was found, but licenses were detected in source scan.

/*

* jidctfst.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

```
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/
```

Found in path(s):

```
*/opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jidctfst.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/
```

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c

No license file was found, but licenses were detected in source scan.

/*

* wrppm.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2009-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in PPM/PGM format.

* The extended 2-byte-per-sample raw PPM/PGM formats are supported.

* The PBMPLUS library is NOT required to compile this software

* (but it is highly useful as a set of PPM image manipulation programs).

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c

No license file was found, but licenses were detected in source scan.

/*

* rdbmp.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2009-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to read input images in Microsoft "BMP"

* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).

* Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or

* 4-bit (feeding such low-depth images into JPEG would be silly anyway).

* Also, we don't support RLE-compressed files.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume input from

* an ordinary stdio stream. They further assume that reading begins

* at the start of the file; start_input may need work if the

* user interface has already read some data (e.g., to determine that

* the file is indeed BMP format).

*

* This code contributed by James Arthur Boucher.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c

No license file was found, but licenses were detected in source scan.

/*

* jpeglib.h

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2002-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file defines the application interface for the JPEG library.

* Most applications using the library need only include this file,

* and perhaps jerror.h if they want to know the exact error codes.

*/

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h

No license file was found, but licenses were detected in source scan.

/*

* wrgif.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in GIF format.

*

* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *

* this code has been modified to output "uncompressed GIF" files. *

* There is no trace of the LZW algorithm in this file. *

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*/

/*

* This code is loosely based on pmtogif from the PBMPLUS distribution

* of Feb. 1991. That file contains the following copyright notice:

* Based on GIFENCOD by David Rowley <mgardi@watdscu.waterloo.edu>.

* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.

* Copyright (C) 1989 by Jef Poskanzer.

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- * that the above copyright notice appear in all copies and that both that
- * copyright notice and this permission notice appear in supporting
- * documentation. This software is provided "as is" without express or
- * implied warranty.
- *
- * We are also required to state that
- * "The Graphics Interchange Format(c) is the Copyright property of
- * CompuServe Incorporated. GIF(sm) is a Service Mark property of
- * CompuServe Incorporated."
- */

Found in path(s):

* /opt/cola/permits/1104792432_1607505170.95/0/jpeg-9c-tar-gz/jpeg-9c/wrgif.c

1.84 libarchive 3.4.3

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libarchive/archive_blake2_impl.h

libarchive/archive_blake2s_ref.c

libarchive/archive_blake2sp_ref.c

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1.85 python-favicon 0.7.0

1.85.1 Available under license :

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1.86 python-beautifulsoup4 4.9.3

1.86.1 Available under license :

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1.87 python-soupsieve 2.0.1

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1.88 dragula 3.7.3

1.88.1 Available under license :

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1.89 url-loader 4.1.1

1.89.1 Available under license :

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1.90 tftp-hpa 5.2

1.90.1 Available under license :

No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp_wrappers-devel

BuildRoot: % {_tmppath}/% {name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-% {version}

%build

%configure

make % {?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}

mkdir -p \${RPM_BUILD_ROOT}% {_bindir}

mkdir -p \${RPM_BUILD_ROOT}% {_mandir}/man{1,8}

mkdir -p \${RPM_BUILD_ROOT}% {_sbindir}

make INSTALLROOT=\${RPM_BUILD_ROOT} \

SBINDIR=% {_sbindir} MANDIR=% {_mandir} \

install

install -m755 -d \${RPM_BUILD_ROOT}% {_sysconfdir}/xinetd.d/ \${RPM_BUILD_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM_BUILD_ROOT}% {_sysconfdir}/xinetd.d/tftp

%post server

/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server

if [\$1 = 0]; then

/sbin/service xinetd reload > /dev/null 2>&1 || :

fi

%clean

rm -rf \${RPM_BUILD_ROOT}

%files

%defattr(-,root,root)

%{_bindir}/tftp

%{_mandir}/man1/*

%files server

%defattr(-,root,root)

%config(noreplace) % {_sysconfdir}/xinetd.d/tftp

%dir /tftpboot

%{_sbindir}/in.tftpd

%{_mandir}/man8/*

%changelog

* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>

- removed completely broken "Malta" patch.

- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>

- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>

- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>

- 0.33

- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>

- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>

- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>

- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1

- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1

- Fix #55789

- Update to 0.30

- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
 - Try applying HJ's patch from #65476

- * Fri Jun 21 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29

- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
 - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)

- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
 - Bump release + rebuild.

- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
 - updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one

- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
 - rebuilt in 7.1.x

- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)
 - update to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up egcs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)
 - added "-l" flag to hpa-tftpd for file-logging (#26467)
 - added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - updated tftp client to 0.17 stable (#19640),
 - drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled

- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
 - correct group.

- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
 - change user from root to nobody

- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).

- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
 - cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
 - compress man pages (again).

- * Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
 - man pages are compressed
 - fix description and summary

- * Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>

- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>

- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>

- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>

- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec

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*/

```

Found in path(s):

```

* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c

```

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```

/* *- c *- ----- *
*
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */

```

Found in path(s):

```

* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/config.h

```

No license file was found, but licenses were detected in source scan.

```

.\" *- nroff *- ----- *
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```

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.\" SUCH DAMAGE.
.\"
.\"----- */

```

Found in path(s):

```

* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

```

```

/* ----- *
*
* Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
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* http://www.openbsd.org/.
*
* ----- */

```

Found in path(s):

```

* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c
No license file was found, but licenses were detected in source scan.

```

```

.\" -*- nroff -*- ----- *
.\"
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.\" The Regents of the University of California. All rights reserved.
.\"

```

```

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.\" SUCH DAMAGE.
.\"
.\"----- */

```

Found in path(s):

```
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
```

No license file was found, but licenses were detected in source scan.

```

/* ----- *
*
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */

```

Found in path(s):

```
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
```

```
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
```

No license file was found, but licenses were detected in source scan.

```
## Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
```

This program is free software available under the same license

Found in path(s):

* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in

No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp_wrappers-devel

BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}

mkdir -p \${RPM_BUILD_ROOT}%{_bindir}

mkdir -p \${RPM_BUILD_ROOT}%{_mandir}/man{1,8}

```

mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
  install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

```

- * Sun Feb 23 2003 Tim Powers <timp@redhat.com>
 - add BuildPreReq on tcp_wrappers
- * Wed Jan 22 2003 Tim Powers <timp@redhat.com>
 - rebuilt
- * Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
 - Update to 0.32
- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
 - Fix #55789
 - Update to 0.30
- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
 - Try applying HJ's patch from #65476
- * Fri Jun 21 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29
- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
 - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)
- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
 - Bump release + rebuild.
- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
 - updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one
- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
 - rebuilt in 7.1.x
- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)

- update to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up eggs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec.in

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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/extern.h

* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h

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1.91 babel-core 6.26.3

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1.92 module-init-tools 3.15

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)

<https://github.com/client9/stringencoders>

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1.95 cjose 0.6.1

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Upstream-Name: cjose

Source: <https://github.com/cisco/cjose>

Files: *

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1.96 icu 68

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
```

```
%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

```
## Dependency rules
```

```
%d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/^(.*)\.o[ :]*/\1.o $@ : /g"' > $@; \
[ -s $@ ] || rm -f $@'
```

```
%d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/^(.*)\.o[ :]*/\1.o $@ : /g"' > $@; \
[ -s $@ ] || rm -f $@'
```

```
## Versioned libraries rules
```

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

```
## Bind internal references
```

```
# LDFlags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
## End BSD-specific setup
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1.97 qrencode 3.4.1

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1.98 pvr-omap4 1.9.0.8.1.1

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xf86-video-omap was packaged for Debian by:

Xavier Boudet <x-boudet@ti.com> on Wed, 28 Mar 2012 10:45:01 +0200

Original source code was downloaded from <ssh://<user>@gerrit.ext.ti.com:29418/glp/xf86-video-omap-pvr.git>

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1.99 react-numeric-input 2.2.3

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1.100 react-dragtastic 2.4.3

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1.101 repoze-profile 2.3

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[1]: <http://eligrey.com>

1.103 cheroot 6.5.2

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1.105 webob 1.8.6

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1.106 curl 7.73.0

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

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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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1.115 libdrm 2.4.101

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1.116 mtdev 1.1.5

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1.117 wayland 1.18.0

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1.118 util-macros 1.19.1

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1.119 redux-devtools-extension 2.13.9

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1.120 jpeg 9d

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```
/*
 * jccoefct.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jccoefct.c
```

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```
/*
 * jdatasrc.c
 *
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 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdatasrc.c
```

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IJG JPEG LIBRARY: FILE LIST

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Here is a road map to the files in the IJG JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpeg" and "djpeg") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY

=====

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jpegim.c Application program interface: core routines for compression.
jpegstd.c Application program interface: standard compression.
jpegim.c Application program interface: core routines for decompression.
jpegstd.c Application program interface: standard decompression.
jpegapi.c Application program interface routines common to compression
and decompression.
jpegparam.c Compression parameter setting helper routines.
jpegtrans.c API and library routines for transcoding compression.
jpegdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jpeginit.c Initialization: determines which other modules to use.
jpegmaster.c Master control: setup and inter-pass sequencing logic.
jpegmainct.c Main buffer controller (preprocessor => JPEG compressor).
jpegprepct.c Preprocessor buffer controller.
jpegcofct.c Buffer controller for DCT coefficient buffer.
jpegcolor.c Color space conversion.
jpegsample.c Downsampling.
jpegdctmgr.c DCT manager (DCT implementation selection & control).
jpegfdctint.c Forward DCT using slow-but-accurate integer method.
jpegfdctfst.c Forward DCT using faster, less accurate integer method.
jpegfdctflt.c Forward DCT using floating-point arithmetic.
jpegchuff.c Huffman entropy coding.
jpegarith.c Arithmetic entropy coding.
jpegmarker.c JPEG marker writing.
jpegdatdst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jpegdmaster.c Master control: determines which other modules to use.
jpegdinput.c Input controller: controls input processing modules.
jpegdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jpegdcofct.c Buffer controller for DCT coefficient buffer.
jpegdpostct.c Postprocessor buffer controller.
jpegdmarker.c JPEG marker reading.
jpegdhuff.c Huffman entropy decoding.
jpegdarith.c Arithmetic entropy decoding.
jpegddctmgr.c IDCT manager (IDCT implementation selection & control).
jpegdtdctint.c Inverse DCT using slow-but-accurate integer method.
jpegdtdctfst.c Inverse DCT using faster, less accurate integer method.
jpegdtdctflt.c Inverse DCT using floating-point arithmetic.
jpegdsample.c Upsampling.
jpegdcolor.c Color space conversion.
jpegdmerge.c Merged upsampling/color conversion (faster, lower quality).
jpegdquant1.c One-pass color quantization using a fixed-spacing colormap.
jpegdquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.

jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.

jerror.c Standard error handling routines (application replaceable).

jmemmgr.c System-independent (more or less) memory management code.

jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c "No backing store": assumes adequate virtual memory exists.

jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().

jmemname.c Makes temporary files with program-generated file names.

jmemdos.c Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.

jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use).

On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

=====

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.

cderror.h Additional error and trace message codes for cjpeg et al.

transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.

djpeg.c Main program for djpeg.

jpegtran.c Main program for jpegtran.

cdjpeg.c Utility routines used by all three programs.

rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c Code to process some of cjpeg's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input.
rdppm.c PPM/PGM file input.
rdrlc.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output.
wrppm.c PPM/PGM file output.
wrrlc.c Utah RLE file output.
wrtarga.c Targa file output.

RDJPGCOM/WRJPGCOM

=====

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

=====

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.

configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
ckconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak*.* Sample makefiles for particular systems.
jconfig.* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
libjpeg.pc.in libjpeg.pc pkg-config file input for configure.
aclocal.m4 M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*.* Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrc-v9d-tar-gz/jpeg-9d/filelist.txt
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```
/*
 * rdtarga.c
 *
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 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */
```

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/rdtarga.c

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/*

* wrbmp.c

*

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*

* This file contains routines to write output images in Microsoft "BMP"

* format (MS Windows 3.x and OS/2 1.x flavors).

* Either 8-bit colormapped or 24-bit full-color format can be written.

* No compression is supported.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*

* This code contributed by James Arthur Boucher.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/wrbmp.c

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* jcmarker.c

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*

* This file contains routines to write JPEG datastream markers.

*/

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* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcmarker.c

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/*

* jcdctmgr.c

*

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*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):

*/opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcdctmgr.c
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/*

* jidctint.c

/*

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* Modification developed 2002-2018 by Guido Vollbeding.

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/*

* This file contains a slow-but-accurate integer implementation of the

* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

* must also perform dequantization of the input coefficients.

/*

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT

* on each row (or vice versa, but it's more convenient to emit a row at

* a time). Direct algorithms are also available, but they are much more

* complex and seem not to be any faster when reduced to code.

/*

* This implementation is based on an algorithm described in

* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT

* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,

* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

* The primary algorithm described there uses 11 multiplies and 29 adds.

* We use their alternate method with 12 multiplies and 32 adds.

* The advantage of this method is that no data path contains more than one

* multiplication; this allows a very simple and accurate implementation in

* scaled fixed-point arithmetic, with a minimal number of shifts.

/*

* We also provide IDCT routines with various output sample block sizes for

* direct resolution reduction or enlargement and for direct resolving the

* common 2x1 and 1x2 subsampling cases without additional resampling: NxN

* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.

/*

* For N<8 we simply take the corresponding low-frequency coefficients of

* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block

* to yield the downsampled outputs.

- * This can be seen as direct low-pass downsampling from the DCT domain
- * point of view rather than the usual spatial domain point of view,
- * yielding significant computational savings and results at least
- * as good as common bilinear (averaging) spatial downsampling.
- *
- * For $N > 8$ we apply a partial $N \times N$ IDCT on the 8 input coefficients as
- * lower frequencies and higher frequencies assumed to be zero.
- * It turns out that the computational effort is similar to the 8×8 IDCT
- * regarding the output size.
- * Furthermore, the scaling and descaling is the same for all IDCT sizes.
- *
- * CAUTION: We rely on the FIX() macro except for the $N=1,2,4,8$ cases
- * since there would be too many additional constants to pre-calculate.
- */

Found in path(s):

- * /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jidctint.c

No license file was found, but licenses were detected in source scan.

/*

- * jpegtran.c

*

- * Copyright (C) 1995-2019, Thomas G. Lane, Guido Vollbeding.
- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains a command-line user interface for JPEG transcoding.
- * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
- * lossless transcoding between different JPEG file formats. It also
- * provides some lossless and sort-of-lossless transformations of JPEG data.

*/

Found in path(s):

- * /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jpegtran.c

No license file was found, but licenses were detected in source scan.

/*

- * jquant2.c

*

- * Copyright (C) 1991-1996, Thomas G. Lane.
- * Modified 2011 by Guido Vollbeding.
- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains 2-pass color quantization (color mapping) routines.
- * These routines provide selection of a custom color map for an image,
- * followed by mapping of the image to that color map, with optional
- * Floyd-Steinberg dithering.

* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jquant2.c

No license file was found, but licenses were detected in source scan.

/*

* djpeg.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2009-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a command-line user interface for the JPEG decompressor.

* It should work on any system with Unix- or MS-DOS-style command lines.

*

* Two different command line styles are permitted, depending on the

* compile-time switch TWO_FILE_COMMANDLINE:

* djpeg [options] inputfile outputfile

* djpeg [options] [inputfile]

* In the second style, output is always to standard output, which you'd

* normally redirect to a file or pipe to some other program. Input is

* either from a named file or from standard input (typically redirected).

* The second style is convenient on Unix but is unhelpful on systems that

* don't support pipes. Also, you MUST use the first style if your system

* doesn't do binary I/O to stdin/stdout.

* To simplify script writing, the "-outfile" switch is provided. The syntax

* djpeg [options] -outfile outputfile inputfile

* works regardless of which command line style is used.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/djpeg.c

No license file was found, but licenses were detected in source scan.

/*

* ckconfig.c

*

* Copyright (C) 1991-1994, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/ckconfig.c
No license file was found, but licenses were detected in source scan.

/*

* cjpeg.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2003-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.

*

* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:

* cjpeg [options] inputfile outputfile

* cjpeg [options] [inputfile]

* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.

* To simplify script writing, the "-outfile" switch is provided. The syntax

* cjpeg [options] -outfile outputfile inputfile

* works regardless of which command line style is used.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*

* jquant1.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

*

* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jquant1.c

No license file was found, but licenses were detected in source scan.

/*

* jmemdos.c

*

* Copyright (C) 1992-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides an MS-DOS-compatible implementation of the system-

* dependent portion of the JPEG memory manager. Temporary data can be

* stored in extended or expanded memory as well as in regular DOS files.

*

* If you use this file, you must be sure that NEED_FAR_POINTERS is defined

* if you compile in a small-data memory model; it should NOT be defined if

* you use a large-data memory model. This file is not recommended if you

* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.

* Also, this code will NOT work if struct fields are aligned on greater than

* 2-byte boundaries.

*

* Based on code contributed by Ge' Weijers.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jmemdos.c

No license file was found, but licenses were detected in source scan.

/*

* jcarith.c

*

* Developed 1997-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains portable arithmetic entropy encoding routines for JPEG

* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

*

* Both sequential and progressive modes are supported in this single module.

*

* Suspension is not currently supported in this module.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcarith.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2010-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform).  In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations.  However, it may not give the same results on all
 * machines because of differences in roundoff behavior.  Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time).  Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT.  Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README).  The following code
 * is based directly on figure 4-8 in P&M.
 *
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs.  These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries.  The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 *
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values.  However, that problem does not arise if
 * we use floating point arithmetic.
 */
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jidctflt.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * rdppm.c
 *
```

```

* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009-2019 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

```

Found in path(s):

```

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/rdppm.c
No license file was found, but licenses were detected in source scan.

```

```

/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for

```

* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcapimin.c

No license file was found, but licenses were detected in source scan.

/*

* jcsample.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains downsampling routines.

*

* Downsampling input data is counted in "row groups". A row group

* is defined to be max_v_samp_factor pixel rows of each component,

* from which the downsampler produces v_samp_factor sample rows.

* A single row group is processed in each call to the downsampler module.

*

* The downsampler is responsible for edge-expansion of its output data

* to fill an integral number of DCT blocks horizontally. The source buffer

* may be modified if it is helpful for this purpose (the source buffer is

* allocated wide enough to correspond to the desired output width).

* The caller (the prep controller) is responsible for vertical padding.

*

* The downsampler may request "context rows" by setting need_context_rows

* during startup. In this case, the input arrays will contain at least

* one row group's worth of pixels above and below the passed-in data;

* the caller will create dummy rows at image top and bottom by replicating

* the first or last real pixel row.

*

* An excellent reference for image resampling is

* Digital Image Warping, George Wolberg, 1990.

* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

*

* The downsampling algorithm used here is a simple average of the source

* pixels covered by the output pixel. The hi-falutin sampling literature

* refers to this as a "box filter". In general the characteristics of a box

* filter are not very good, but for the specific cases we normally use (1:1

* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not

* nearly so bad. If you intend to use other sampling ratios, you'd be well

* advised to improve this code.

*

* A simple input-smoothing capability is provided. This is mainly intended

* for cleaning up color-dithered GIF input files (if you find it inadequate,

* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcsample.c
No license file was found, but licenses were detected in source scan.

/*

* jdpostct.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the decompression postprocessing controller.

* This controller manages the upsampling, color conversion, and color

* quantization/reduction steps; specifically, it controls the buffering

* between upsample/color conversion and color quantization/reduction.

*

* If no color quantization/reduction is required, then this module has no

* work to do, and it just hands off to the upsample/color conversion code.

* An integrated upsample/convert/quantize process would replace this module

* entirely.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*

* jdmarker.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2009-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to decode JPEG datastream markers.

* Most of the complexity arises from our desire to support input

* suspension: if not all of the data for a marker is available,

* we must exit back to the application. On resumption, we reprocess

* the marker.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdmarker.c

No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2019, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.

Try doing

```
./configure
```

```
make
```

```
make test
```

If that doesn't complain, do

```
make install
```

(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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- by hand

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Testing the software

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Optional stuff

Optimization

Hints for specific systems

BEFORE YOU START

=====

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE

=====

To configure the IJG code for your system, you need to create two files:

- * jconfig.h: contains values for system-dependent #define symbols.
- * Makefile: controls the compilation process.

(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:

- * On a Unix system, you can just run the "configure" script.
- * We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
- * If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script

If you are on a Unix machine, you can just type

```
./configure
```

and let the configure script construct appropriate configuration files.

If you're using "csh" on an old version of System V, you might need to type

```
sh configure
```

instead to prevent csh from trying to execute configure itself.

Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.

If you want to build libjpeg only as a static library, say

```
./configure --disable-shared
```

If you want to build libjpeg only as a shared library, say

```
./configure --disable-static
```

Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.

To force a particular compiler to be selected, use the CC option, for example

```
./configure CC='cc'
```

The same method can be used to include any unusual compiler switches.

For example, on HP-UX you probably want to say

```
./configure CC='cc -Aa'
```

to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.

You can override this by saying, for example,

```
./configure CFLAGS='-O2'
```

if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C
makefile.sas jconfig.sas Amiga, SAS C
makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C
makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc Windows, MS Visual C++
makefile.vs jconfig.vc Windows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vs jconfig.vc Windows, Visual Studio 2019 (v16)
make*.v16
makefile.b32 jconfig.vc Windows, Borland C++ 32-bit (bcc32)
makefile.mms jconfig.vms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:

```
cjpeg inputfile >outputfile
```

```
cjpeg <inputfile >outputfile
```

```
source program | cjpeg >outputfile
```

The simpler "two file" command line style is just

```
cjpeg inputfile outputfile
```

You may prefer the two-file style, particularly if you don't have pipes.

You **MUST** use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different

memory managers:

- * `jmemansi.c` This version uses the ANSI-standard library routine `tmpfile()`, which not all non-ANSI systems have. On some systems `tmpfile()` may put the temporary file in a non-optimal location; if you don't like what it does, use `jmemname.c`.
- * `jmemname.c` This version creates named temporary files. For anything except a Unix machine, you'll need to configure the `select_file_name()` routine appropriately; see the comments near the head of `jmemname.c`. If you use this version, define `NEED_SIGNAL_CATCHER` in `jconfig.h` to make sure the temp files are removed if the program is aborted.
- * `jmemnobs.c` (That stands for No Backing Store :-).) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.
- * `jmemdos.c` This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. **IMPORTANT:** if you use this, define `USE_MSDOS_MEMMGR` in `jconfig.h`, and include the assembly file `jmemdosa.asm` in the programs. The supplied makefiles and `jconfig` files for 16-bit MS-DOS compilers already do both.
- * `jmemmac.c` Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the `SYSDEPMEM` variable in your makefile to equal the corresponding object file name (for example, `jmemansi.o` or `jmemansi.obj` for `jmemansi.c`).

If you have plenty of (real or virtual) main memory, just use `jmemnobs.c`. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try `jmemansi.c` first. If that doesn't compile, you'll have to use `jmemname.c`; be sure to adjust `select_file_name()` for local conditions. You may also need to change `unlink()` to `remove()` in `close_backing_store()`.

Except with `jmemnobs.c` or `jmemmac.c`, you need to adjust the `DEFAULT_MAX_MEM` setting to a reasonable value for your system (either by adding a `#define` for `DEFAULT_MAX_MEM` to `jconfig.h`, or by adding a `-D` switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for `cjpeg` or `djpeg` are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual

memory), just set `DEFAULT_MAX_MEM` to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by `jmemdos.c`.)

BUILDING THE SOFTWARE

=====

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting `#define INCOMPLETE_TYPES_BROKEN` in `jconfig.h`.

If you have trouble with missing system include files or inclusion of the wrong ones, read `jinclude.h`. This shouldn't happen if you used `configure` or `ckconfig.c` to set up `jconfig.h`.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a `getenv()` library routine, define `NO_GETENV`.

Also see the system-specific hints, below.

TESTING THE SOFTWARE

=====

As a quick test of functionality we've included a small sample image in several forms:

`testorig.jpg` Starting point for the djpeg tests.

`testing.ppm` The output of djpeg `testorig.jpg`

`testing.bmp` The output of djpeg `-bmp -colors 256 testorig.jpg`

`testing.jpg` The output of cjpeg `testing.ppm`

`testprog.jpg` Progressive-mode equivalent of `testorig.jpg`.

`testingp.jpg` The output of cjpeg `-progressive -optimize testing.ppm`

(The first- and second-generation `.jpg` files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the `testing*` files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run `djpeg` and `cjpeg` by hand and compare the output files to `testing*` with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce `MAX_ALLOC_CHUNK` to a value that fits in type `size_t`. Try adding `#define MAX_ALLOC_CHUNK 65520L` to `jconfig.h`. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining `ALIGN_TYPE` as long should take care of that one.

If the `cjpeg` test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define `RIGHT_SHIFT_IS_UNSIGNED`. Go back to the configuration step and run `ckconfig.c`. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through `stdin/stdout` actually works. You should get the same results from `"djpeg <testorig.jpg >out.ppm"` as from `"djpeg -outfile out.ppm testorig.jpg"`. Note that the makefiles all use the latter style and therefore do not exercise `stdin/stdout`! If this check fails, try recompiling with `USE_SETMODE` or `USE_FDOPEN` defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than `jmemnobs.c`, you should test that temporary-file usage works. Try `"djpeg -bmp -colors 256 -max 0 testorig.jpg"` and make sure its output matches `testing.bmp`. If you have any really large images handy, try compressing them with `-optimize` and/or decompressing with `-colors 256` to make sure your `DEFAULT_MAX_MEM` setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE

=====

Once you're done with the above steps, you can install the software by copying the executable files (`cjpeg`, `djpeg`, `jpegtran`, `rdjpgcom`, and `wrjpgcom`) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (`cjpeg.1`, `djpeg.1`, `jpegtran.1`, `rdjpgcom.1`, `wrjpgcom.1`) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say
make install
to install the programs and their man pages into the standard places.
(You'll probably need to be root to do this.) We recommend first saying
make -n install
to see where configure thought the files should go. You may need to edit
the Makefile, particularly if your system's conventions for man page
filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other
programs besides ours, then you need to put the four include files
jpeglib.h jerror.h jconfig.h jmorecfg.h
into your include-file directory, and put the library file libjpeg.a
(extension may vary depending on system) wherever library files go.
If you generated a Makefile with "configure", it will do what it thinks
is the right thing if you say
make install-lib

OPTIONAL STUFF

=====

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display
of percent-done progress reports. The routine provided in cdjpeg.c merely
prints percentages to stderr, but you can customize it to do something
fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster
Toolkit format) disabled, because the RLE support won't compile without the
Utah library. If you have URT version 3.1 or later, you can enable RLE
support as follows:

1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory
containing the URT .h files (typically the "include"
subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies
the directory containing the URT "librle.a" file (typically the
"lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision.
(For color, this means 8 to 12 bits per channel, of course.) If you need to
work with deeper than 8-bit data, you can compile the IJG code for 9-bit to

12-bit operation.

To do so:

1. In `jmorecfg.h`, define `BITS_IN_JSAMPLE` as 9, 10, 11, or 12 rather than 8.
2. In `jconfig.h`, undefine `BMP_SUPPORTED`, `RLE_SUPPORTED`, and `TARGA_SUPPORTED`, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (`jpegtran`) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (`rdppm.c`) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a `maxval` greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any `maxval` regardless of the `BITS_IN_JSAMPLE` setting; incoming data is automatically rescaled to `maxval=MAXJSAMPLE` as appropriate for the `cjpeg` bit depth.

The PPM writer (`wrppm.c`) will normally write 2-byte binary PPM or PGM format, `maxval=MAXJSAMPLE`, when compiled with `BITS_IN_JSAMPLE>8`. Since this format is not yet widely supported, you can disable it by compiling `wrppm.c` with `PPM_NORAWWORD` defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of `djpeg` to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:

The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, `cjpeg` uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the `xxx_SUPPORTED` #defines in `jconfig.h` and `jmorecfg.h`. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine `JDCT_DEFAULT` or `JDCT_FASTEST` to a supported method, by adding a #define in `jconfig.h`.)

OPTIMIZATION

=====

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the `MULTIPLYxxx` macro definitions in `jdct.h`. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining `SHORTxSHORT_32` is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing `cjpeg` on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific `jconfig` files already contain #define switches to select appropriate `MULTIPLYxxx` definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add `#define JDCT_DEFAULT JDCT_FLOAT` to `jconfig.h`. Even if you don't change

the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS

=====

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)

After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

```
CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o
```

Also add a new line '.c.o; \$(cc) \$< \$(cflags) -c -o \$@'. Remove the lines '\$(RM) libjpeg.o' and '\$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlb.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlb.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after

an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading "#pragma novector" just before the loop

```
for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
```

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdchuff.c). [This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part. The CodeWarrior source code is available from <http://www.pobox.com/~jsam>.
2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file `/info-mac/dev/src/jpeg-convert-c.hqx`.

`jmemmac.c` is the recommended memory manager back end for Macintosh. It uses `NewPtr/DisposePtr` instead of `malloc/free`, and has a Mac-specific implementation of `jpeg_mem_available()`. It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in `jmemmac.c` if you need to run it on System 6.) NOTE that `USE_MAC_MEMMGR` must be defined in `jconfig.h` to use `jmemmac.c`.

You can also use `jmemnobs.c`, if you don't care about handling images larger than available memory. If you use any memory manager back end other than `jmemmac.c`, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of `malloc/free`. (For instance, `free()` may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because `jmemmgr.c` already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining `USE_CCOMMAND`. You'll also need to define `TWO_FILE_COMMANDLINE` to avoid `stdin/stdout`. This means that when using the `cjpeg/djpeg` programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps `USE_FDOPEN` or `USE_SETMODE` would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `"#define ALIGN_TYPE long"` to `jconfig.h` to eliminate the complaint.

The supplied configuration file `jconfig.mac` can be used for your `jconfig.h`; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script `makeproj.mac` to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define `USE_CCOMMAND` in `jconfig.h` so that the `ccommand()` routine is called. You must also define `TWO_FILE_COMMANDLINE` because `stdin/stdout` don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. `jmемmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

`jconfig.mac` should work as a `jconfig.h` configuration file for Think C, but the `makeproj.mac` AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's `cc` version 1.31 has a rather nasty optimization bug. Don't use `-O` if you have that compiler version. (Use `"cc -V"` to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile `cjpeg` or `djpeg` by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that `NEED_FAR_POINTERS` is defined in `jconfig.h` if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and `jconfig` files for Borland and Microsoft C compile in medium model and define `NEED_FAR_POINTERS`.)

The DOS-specific memory manager, `jmемdos.c`, should be used if possible. It needs some assembly-code routines which are in `jmемdosa.asm`; make sure

your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "\$ (RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some

of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

```
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
```

(This is already in jconfig.vc, by the way.)

windef.h contains the declarations

```
#define far
#define FAR far
```

Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR" / "#endif" around the line "#define FAR" in jmorecfg.h.

(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:

1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line

```
fprintf(stderr, "%s\n", buffer);
```

(in output_message in jerror.c) with

```
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
```

It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is `jmemnobs.c`; in other words, let Windows do any virtual memory management needed. You should NOT use `jmemdos.c` nor `jmemdosa.asm` under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
```

into `jconfig.h` to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) `jmemnobs.c` works without modification in large or flat memory models, but to use medium model, you need to modify its `jpeg_get_large` and `jpeg_free_large` routines to allocate far memory. In any case, you might like to replace its calls to `malloc` and `free` with direct calls on Windows memory allocation functions.

You may also want to modify `jdatasrc.c` and `jdatadst.c` to use Windows file operations rather than `fread/fwrite`. This is only necessary if your C compiler doesn't provide a competent implementation of C `stdio` functions.

You might want to tweak the `RGB_xxx` macros in `jmorecfg.h` so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications `cjpeg/djpeg`, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So `jdatasrc.c` and `jdatadst.c` don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make `jdatasrc.c/jdatadst.c` part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros `GLOBAL()` and `EXTERN()` to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify `METHODDEF()` and `JMETHOD()` to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in `jmorecfg.h`. Typical definitions for a 16-bit DLL are:

```
#define GLOBAL(type) type _far _pascal _loadds _export
```



```
#define EXTERN(type) extern type _far _pascal _loads
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) \
    type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

```
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
```

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

```
-Ot -Og
-Ot -Op
-Ot -Om
```

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

`jconfig.vc` should work OK with any Microsoft compiler for a 32-bit memory model. `makefile.vc` is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds `extern "C"` to `jpeglib.h`. This avoids the need to put `extern "C" { ... }` around `#include "jpeglib.h"` in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the `*.c` files to `*.cpp` (and adjusting the makefile to match). In this case you also need to define the symbol `DONT_USE_EXTERN_C` in the configuration to prevent `jpeglib.h` from using `extern "C"`.

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the command prompt, change to the source directory and execute the command line

```
NMAKE /f makefile.vc setup-vc6
```

If you get an error message saying that the "NMAKE" command could not be found, execute the command

```
"%ProgramFiles%\Microsoft Visual Studio\VC98\Bin\VCVARS32"
```

to set the environment for using Microsoft Visual C++ tools, and repeat the NMAKE call.

This will move `jconfig.vc` to `jconfig.h` and makefiles to project files.

(Note that the renaming is critical!)

Alternatively you can use

```
NMAKE /f makefile.vc setupcopy-vc6
```

This will create renamed copies of the files, which allows to repeat the setup later.

2. Open the workspace file `jpeg.dsw`, build the library project.
(If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file `apps.dsw`, build the application projects.
4. To perform the self-test, execute the command line

```
NMAKE /f makefile.vc test-build
```
5. Move the application `.exe` files from the Release folder to an

appropriate location on your path.

Microsoft Windows, Visual Studio 2019 (v16):

We include makefiles that should work as project files in Visual Studio 2019 (v16) or later. There is a library makefile that builds the IJG library as a static Win32/x64 library, and application makefiles that build the sample applications as Win32/x64 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the Developer Command Prompt for VS 2019, change to the source directory and execute the command line
NMAKE /f makefile.vs setup-v16
This will move jconfig.vc to jconfig.h and makefiles to project files. (Note that the renaming is critical!)
Alternatively you can use
NMAKE /f makefile.vs setupcopy-v16
This will create renamed copies of the files, which allows to repeat the setup later.
2. Open the solution file jpeg.sln, build the library project.
 - a) If you are using Visual Studio more recent than 2019 (v16), you'll probably get a message saying that the project files are being updated.
 - b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
 - c) If you want to build x64 code, change the platform setting from Win32 to x64. You can build Win32 and x64 versions side by side.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-32
for the Win32 build, or on a 64-bit system
NMAKE /f makefile.vs test-64
for the x64 build.
5. Move the application .exe files from the Release folder to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying

```
./configure RANLIB='ar -ts'
```

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrc-v9d-tar-gz/jpeg-9d/install.txt  
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* cdjpeg.h
```

```
*
```

```
* Copyright (C) 1994-1997, Thomas G. Lane.
```

```
* Modified 2019 by Guido Vollbeding.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains common declarations for the sample applications
```

```
* cjpeg and djpeg. It is NOT used by the core JPEG library.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrc-v9d-tar-gz/jpeg-9d/cdjpeg.h  
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009-2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */
```

Found in path(s):

```
*/opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jutils.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
```

** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):

*/opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*

* rdgif.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to read input images in GIF format.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume input from

* an ordinary stdio stream. They further assume that reading begins

* at the start of the file; start_input may need work if the

* user interface has already read some data (e.g., to determine that

* the file is indeed GIF format).

*/

/*

* This code is loosely based on giftppm from the PBMPLUS distribution

* of Feb. 1991. That file contains the following copyright notice:

* +-----+

* | Copyright 1990, David Koblas. |

* | Permission to use, copy, modify, and distribute this software |

* | and its documentation for any purpose and without fee is hereby |

* | granted, provided that the above copyright notice appear in all |

* | copies and that both that copyright notice and this permission |

* | notice appear in supporting documentation. This software is |

* | provided "as is" without express or implied warranty. |

* +-----+

*/

Found in path(s):

*/opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/rdgif.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

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This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see [jpeg/doc/cstyle.ms.tbl.Z](#), or [cstyle.txt.Z](#) for those without nroff/tbl).

Block comments should be laid out thusly:

```
/*  
 * Block comments in this style.  
*/
```

We indent statements in K&R style, e.g.,

```
if (test) {  
    then-part;  
} else {  
    else-part;  
}
```

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., `multi_word_name` (not `multiWordName`). Preprocessor symbols and enum constants are similar but upper case (`MULTI_WORD_NAME`). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). `ansi2knr` is not very bright, so it imposes a format requirement on function declarations: the function name **MUST BEGIN IN COLUMN 1**. Thus all functions should be written in the following style:

```
LOCAL(int *)  
function_name (int a, char *b)  
{  
    code...  
}
```

Note that each function definition must begin with `GLOBAL(type)`, `LOCAL(type)`, or `METHODDEF(type)`. These macros expand to "static type" or just "type" as

appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
```

which is used like this:

```
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.
3. Don't use global variables; anything that must be used in another module

should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/coderules.txt

No license file was found, but licenses were detected in source scan.

/*

* wrgif.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2015-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in GIF format.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*/

/*

* This code is loosely based on ppmtogif from the PBMPLUS distribution

* of Feb. 1991. That file contains the following copyright notice:

* Based on GIFENCODER by David Rowley <mgardi@watdscu.waterloo.edu>.

* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.

* Copyright (C) 1989 by Jef Poskanzer.

* Permission to use, copy, modify, and distribute this software and its

* documentation for any purpose and without fee is hereby granted, provided

* that the above copyright notice appear in all copies and that both that

* copyright notice and this permission notice appear in supporting

* documentation. This software is provided "as is" without express or

* implied warranty.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/wrgif.c

No license file was found, but licenses were detected in source scan.

/*

* jerror.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2012-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains simple error-reporting and trace-message routines.

* These are suitable for Unix-like systems and others where writing to

* stderr is the right thing to do. Many applications will want to replace

* some or all of these routines.

*

* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,

* you get a Windows-specific hack to display error messages in a dialog box.

* It ain't much, but it beats dropping error messages into the bit bucket,

* which is what happens to output to stderr under most Windows C compilers.

*

* These routines are used by both the compression and decompression code.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jerror.c

No license file was found, but licenses were detected in source scan.

/*

* jddctmgr.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the inverse-DCT management logic.

* This code selects a particular IDCT implementation to be used,

* and it performs related housekeeping chores. No code in this file

* is executed per IDCT step, only during output pass setup.

*

* Note that the IDCT routines are responsible for performing coefficient

* dequantization as well as the IDCT proper. This module sets up the

* dequantization multiplier table needed by the IDCT routine.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jddctmgr.c

No license file was found, but licenses were detected in source scan.

/*

* jconfig.txt

*

* Copyright (C) 1991-1994, Thomas G. Lane.

* Modified 2009-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file documents the configuration options that are required to

* customize the JPEG software for a particular system.

*

* The actual configuration options for a particular installation are stored

* in jconfig.h. On many machines, jconfig.h can be generated automatically

* or copied from one of the "canned" jconfig files that we supply. But if

* you need to generate a jconfig.h file by hand, this file tells you how.

*

* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.

* EDIT A COPY NAMED JCONFIG.H.

*/

/*

* These symbols indicate the properties of your machine or compiler.

* #define the symbol if yes, #undef it if no.

*/

/* Does your compiler support function prototypes?

* (If not, you also need to use ansi2knr, see install.txt)

*/

#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?

* How about "unsigned short" ?

*/

#define HAVE_UNSIGNED_CHAR

#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.

* NOTE: be sure to define void such that "void *" represents the most general

* pointer type, e.g., that returned by malloc().

*/

/* #define void char */

```

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.

```

```

*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

```

```

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

```

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jconfig.txt

No license file was found, but licenses were detected in source scan.

```

/*
 * jversion.h
 *
 * Copyright (C) 1991-2020, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 */

```

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jversion.h

No license file was found, but licenses were detected in source scan.

/*

* jdmerge.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2013-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains code for merged upsampling/color conversion.

*

* This file combines functions from jdsample.c and jdcOLOR.c;

* read those files first to understand what's going on.

*

* When the chroma components are to be upsampled by simple replication

* (ie, box filtering), we can save some work in color conversion by

* calculating all the output pixels corresponding to a pair of chroma

* samples at one time. In the conversion equations

* $R = Y + K1 * Cr$

* $G = Y + K2 * Cb + K3 * Cr$

* $B = Y + K4 * Cb$

* only the Y term varies among the group of pixels corresponding to a pair

* of chroma samples, so the rest of the terms can be calculated just once.

* At typical sampling ratios, this eliminates half or three-quarters of the

* multiplications needed for color conversion.

*

* This file currently provides implementations for the following cases:

* YCC => RGB color conversion only (YCbCr or BG_YCC).

* Sampling ratios of 2h1v or 2h2v.

* No scaling needed at upsample time.

* Corner-aligned (non-CCIR601) sampling alignment.

* Other special cases could be added, but in most applications these are

* the only common cases. (For uncommon cases we fall back on the more

* general code in jdsample.c and jdcOLOR.c.)

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdmerge.c

No license file was found, but licenses were detected in source scan.

/*

* jdapimin.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2009-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdapimin.c

No license file was found, but licenses were detected in source scan.

/*

* jpeglib.h

/*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2002-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

/*

* This file defines the application interface for the JPEG library.

* Most applications using the library need only include this file,

* and perhaps jerror.h if they want to know the exact error codes.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jpeglib.h

No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software

=====

README for release 9d of 12-Jan-2020

=====

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

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

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 grayscale images.

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

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

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

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

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

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES

=====

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2020, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

- (1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

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.

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 PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. 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 introduced 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. IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

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/jpegsr9d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9d.zip>.

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

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

send usenet/news.answers/jpeg-faq/part1

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

ACKNOWLEDGMENTS

=====

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

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

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

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously 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.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

=====

The ISO/IEC JTC1/SC29/WG1 standards committee (previously 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.)

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.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction

or the special interest of another without their appropriate knowing,
willing and intentional consent made by contract or accommodation agreement.
IJG expresses that which already was.
The people have already determined and demanded that public administration
entities, national governments, and their supporting judicial systems must
be fully transparent, accountable, and liable.
IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame")
is currently prepared and will be published later.

TO DO

=====

Version 9 is the second release of a new generation JPEG standard
to overcome the limitations of the original JPEG specification,
and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

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

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/README

No license file was found, but licenses were detected in source scan.

/*

* jcrepct.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the compression preprocessing controller.

* This controller manages the color conversion, downsampling,

* and edge expansion steps.

*

* Most of the complexity here is associated with buffering input rows

* as required by the downsampler. See the comments at the head of

* jcsample.c for the downsampler's needs.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcrepct.c

No license file was found, but licenses were detected in source scan.

/*

* jccolor.c

*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011-2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jccolor.c

No license file was found, but licenses were detected in source scan.

/*
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2015-2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/wrtarga.c

No license file was found, but licenses were detected in source scan.

/*
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
*
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.

* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcinit.c
No license file was found, but licenses were detected in source scan.

/*

* jmehmsys.h

*

* Copyright (C) 1992-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)

*

* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jmehmsys.h
No license file was found, but licenses were detected in source scan.

/*

* jcomapi.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface routines that are used for both
* compression and decompression.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcomapi.c
No license file was found, but licenses were detected in source scan.

```
/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * Modified 2000-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jctrans.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/rdrle.c
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jaricom.c
 *
 * Developed 1997-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
```

- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains probability estimation tables for common use in
- * arithmetic entropy encoding and decoding routines.
- *
- * This data represents Table D.3 in the JPEG spec (D.2 in the draft),
- * ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
- * in the JBIG spec, ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82.
- */

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jaricom.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

A "component" means a color channel, e.g., Red or Luminance.

A "sample" is a single component value (i.e., one number in the image data).

A "coefficient" is a frequency coefficient (a DCT transform output number).

A "block" is an array of samples or coefficients.

An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

- * A subroutine library for JPEG compression and decompression.
- * cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability

issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.
3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:

- * Color space conversion (e.g., RGB to YCbCr).
- * Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:

- * MCU assembly, DCT, quantization.

* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to `fwrite()`, but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:

- * Entropy decoding (sequential or progressive, Huffman or arithmetic).
- * Dequantization, inverse DCT, MCU disassembly.

Postprocessing:

- * Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- * Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [currently it does not].
- * Optional color quantization (e.g., reduction to 256 colors).
- * Optional color precision reduction (e.g., 24-bit to 15-bit color).

[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.

The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (`block_size-sample`) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size

in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.)

Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see `jdatadst.c`, which implements the external interface specified by struct `jpeg_destination_mgr`, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most

popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.

The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself

appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data

```

      |       |       |
----- controller -----

```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

- * Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

- * In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```

                                |-- Colospace conversion
      |-- Preprocessing controller --|
      |                               |-- Downsampling
Main controller --|
      |                               |-- Forward DCT, quantize
      |-- Coefficient controller --|
                                |-- Entropy encoding

```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

- * Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.
- * Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.
- * Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.
- * Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as V_{max} pixel rows of each component before downsampling, and V_k sample rows afterwards (remember V_k differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of `block_size` samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of `block_size` rows).
- * Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.
- * Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)
- * Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of

coefficients.

In addition to the above objects, the compression library includes these objects:

- * Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.
- * Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).
- * Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.
- * Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).
- * Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.
- * Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```

                                |-- Entropy decoding
    |-- Coefficient controller --|
    |                               |-- Dequantize, Inverse DCT
Main controller --|
```

```
|                               |-- Upsampling
|-- Postprocessing controller --| |-- Colorspace conversion
                                |-- Color quantization
                                |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

- * Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.
- * Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.
- * Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.
- * Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.
- * Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.
- * Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a

buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

- * Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

- * Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

- * Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

- * Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: `jdinput.c` controls only input-side processing, while `jdmaster.c` handles overall initialization and output-side control.

- * Marker reading: decodes JPEG markers (except for RSTn).

- * Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

- * Memory manager: same as for compression library.

- * Error handler: same as for compression library.

- * Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress

monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls `jpeg_consume_input()`; otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See `libjpeg.txt` for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. `jpeg_consume_input()` is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the `cinfo` data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because

there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "(int) (value)" elsewhere.

With these conventions, JSAMPLE values can be assumed to be ≥ 0 . This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

- * Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
- * Indexing doesn't require multiplication; this is a performance win on many machines.
- * Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
- * The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which

is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data

structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment).

We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand

bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does **not** cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling `jpeg_finish_compress()` will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever `malloc/free` are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two

pools/lifetimes are defined:

- * JPOOL_PERMANENT lasts until master record is destroyed
- * JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
 - * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
 - * Pool allocation heuristics may differ for large and small objects.Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKS (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply

allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their `jinit_xxx` routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. `realize_virt_arrays` will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the `realize_virt_arrays` computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing `realize_virt_arrays` to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in `jdcoefct.c` for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (`jmemmgr.c`) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides

the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:

1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:

1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/structure.txt

No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jmemdosa.asm

No license file was found, but licenses were detected in source scan.

/*

* jerror.h

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 1997-2018 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file defines the error and message codes for the JPEG library.

* Edit this file to add new codes, or to translate the message strings to

* some other language.

* A set of error-reporting macros are defined too. Some applications using

* the JPEG library may wish to include this file to get the error codes

* and/or the macros.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jerror.h

No license file was found, but licenses were detected in source scan.

/*

* jdmainct.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2016 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the main buffer controller for decompression.

* The main buffer lies between the JPEG decompressor proper and the

* post-processor; it holds downsampled data in the JPEG colorspace.

*

* Note that this code is bypassed in raw-data mode, since the application

* supplies the equivalent of the main buffer in that case.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdmainct.c

No license file was found, but licenses were detected in source scan.


```
/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jdctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdct.h
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jmemname.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a generic implementation of the system-dependent
 * portion of the JPEG memory manager. This implementation assumes that
 * you must explicitly construct a name for each temp file.
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jmemname.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
```

* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/cderror.h

No license file was found, but licenses were detected in source scan.

/*

* jfdctint.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modification developed 2003-2018 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a slow-but-accurate integer implementation of the

* forward DCT (Discrete Cosine Transform).

*

* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT

* on each column. Direct algorithms are also available, but they are

* much more complex and seem not to be any faster when reduced to code.

*

* This implementation is based on an algorithm described in

* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT

* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,

* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

* The primary algorithm described there uses 11 multiplies and 29 adds.

* We use their alternate method with 12 multiplies and 32 adds.

* The advantage of this method is that no data path contains more than one

* multiplication; this allows a very simple and accurate implementation in

* scaled fixed-point arithmetic, with a minimal number of shifts.

*

* We also provide FDCT routines with various input sample block sizes for

* direct resolution reduction or enlargement and for direct resolving the

* common 2x1 and 1x2 subsampling cases without additional resampling: NxN

* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.

*

* For N<8 we fill the remaining block coefficients with zero.

* For N>8 we apply a partial N-point FDCT on the input samples, computing

* just the lower 8 frequency coefficients and discarding the rest.

*

* We must scale the output coefficients of the N-point FDCT appropriately

* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling

* is folded into the constant multipliers (pass 2) and/or final/initial

* shifting.

*

* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases

* since there would be too many additional constants to pre-calculate.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jfdctint.c

No license file was found, but licenses were detected in source scan.

/*

* jcmaster.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2003-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains master control logic for the JPEG compressor.

* These routines are concerned with parameter validation, initial setup,

* and inter-pass control (determining the number of passes and the work

* to be done in each pass).

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcmaster.c

No license file was found, but licenses were detected in source scan.

/*

* wrtle.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2017-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in RLE format.

* The Utah Raster Toolkit library is required (version 3.1 or later).

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*

* Based on code contributed by Mike Lijewski,

* with updates from Robert Hutchinson.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/wrtle.c

No license file was found, but licenses were detected in source scan.

```
/*
 * transupp.h
 *
 * Copyright (C) 1997-2019, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/transupp.h
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jdatadst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdatadst.c
No license file was found, but licenses were detected in source scan.
```

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2019, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file `example.c` provides heavily commented skeleton code for calling the JPEG library. Also see `jpeglib.h` (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW

=====

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

- * Hierarchical storage
- * Lossless JPEG
- * DNL marker
- * Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

The rough outline of a JPEG compression operation is:

- Allocate and initialize a JPEG compression object
- Specify the destination for the compressed data (eg, a file)
- Set parameters for compression, including image size & colorspace
- jpeg_start_compress(...);
- while (scan lines remain to be written)
- jpeg_write_scanlines(...);
- jpeg_finish_compress(...);
- Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

- Allocate and initialize a JPEG decompression object
- Specify the source of the compressed data (eg, a file)
- Call jpeg_read_header() to obtain image info
- Set parameters for decompression
- jpeg_start_decompress(...);
- while (scan lines remain to be read)
- jpeg_read_scanlines(...);
- jpeg_finish_decompress(...);
- Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to `jpeg_read_scanlines()`.

It is possible to abort an incomplete compression or decompression operation by calling `jpeg_abort()`; or, if you do not need to retain the JPEG object, simply release it by calling `jpeg_destroy()`.

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as `jpeg_destroy()` can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE

=====

Data formats

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.

A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```

FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);

```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

```

image_width  Width of image, in pixels
image_height Height of image, in pixels
input_components Number of color channels (samples per pixel)
in_color_space Color space of source image

```

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(),

because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_set_defaults()` more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. `jpeg_start_compress(...)`;

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)

```
jpeg_write_scanlines(...);
```

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined

terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like `"while (cinfo.next_scanline < cinfo.image_height)"`.

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

`jpeg_write_scanlines()` returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- * If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- * If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of `next_scanline`.

6. `jpeg_finish_compress(...)`;

After all the image data has been written, call `jpeg_finish_compress()` to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.

`jpeg_finish_compress()` also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, `jpeg_finish_compress()` will perform the additional passes using data buffered by the first pass. In this case `jpeg_finish_compress()` may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call `jpeg_finish_compress()` before writing the necessary total number of scanlines. If you wish to abort compression, call `jpeg_abort()` as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call `jpeg_set_defaults()` to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling `jpeg_destroy_compress()`. This will free all subsidiary memory (regardless of the previous state of the object). Or you can call `jpeg_destroy()`, which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, `jpeg_destroy()` should be passed a `j_common_ptr`.)

If you allocated the `jpeg_compress_struct` structure from `malloc()`, freeing it is your responsibility --- `jpeg_destroy()` won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call `jpeg_abort()` which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`. (See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct `jpeg_decompress_struct`" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.

* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call `jpeg_destroy()` when you are done with the JPEG object, or call `jpeg_abort()` to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`. If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. `jpeg_start_decompress(...)`;

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if

colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

```
6. while (scan lines remain to be read)
    jpeg_read_scanlines(...);
```

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that `jpeg_read_scanlines()` reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that `jpeg_read_scanlines()` fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls `jpeg_read_scanlines()` repeatedly until the whole image has been read.

7. `jpeg_finish_decompress(...)`;

After all the image data has been read, call `jpeg_finish_decompress()` to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling `jpeg_destroy_decompress()` or `jpeg_destroy()`. The previous discussion of destroying compression objects applies here too.

Typical code:

```
jpeg_destroy_decompress(&cinfo);
```

9. Aborting.

You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file `jpeglib.h` to obtain declarations of data types and routines. Before including `jpeglib.h`, include system headers that define at least the typedefs `FILE` and `size_t`. On ANSI-conforming systems, including `<stdio.h>` is sufficient; on older Unix systems, you may need `<sys/types.h>` to define `size_t`.

If the application needs to refer to individual JPEG library error codes, also include `jerror.h` to define those symbols.

`jpeglib.h` indirectly includes the files `jconfig.h` and `jmorecfg.h`. If you are installing the JPEG header files in a system directory, you will want to install all four files: `jpeglib.h`, `jerror.h`, `jconfig.h`, `jmorecfg.h`.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("`libjpeg.a`", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build `libjpeg.a` automatically (see `install.txt`).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is **not** guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the `jmemdos.c` memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See `cjpeg.c` or `djpeg.c` for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the `stdio` library: only the default source/destination managers and

error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

=====

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call `jpeg_set_defaults()` first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling `cinfo` fields directly.

The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`

This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`

Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`

Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`

Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

```
jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,  
    boolean force_baseline)
```

Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEG spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

```
int jpeg_quality_scaling (int quality)
```

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

```
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
```

Set default quantization tables with linear q_scale_factor[] values (see below).

```
jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,  
    const unsigned int *basic_table,  
    int scale_factor, boolean force_baseline)
```

Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).

CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)

Generates a default scan script for writing a progressive-JPEG file.

This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code

If TRUE, use arithmetic coding.

If FALSE, use Huffman coding.

int block_size

Set DCT block size. All N from 1 to 16 are possible.

Default is 8 (baseline format).

Larger values produce higher compression, smaller values produce higher quality.

An exact DCT stage is possible with 1 or 2.

With the default quality of 75 and default Luminance qtable the DCT+Quantization stage is lossless for value 1.

Note that values other than 8 require a SmartScale capable decoder, introduced with IJG JPEG 8. Setting the block_size parameter for compression works with version 8c and later.

J_DCT_METHOD dct_method

Selects the algorithm used for the DCT step. Choices are:

JDCT_ISLOW: slow but accurate integer algorithm

JDCT_IFAST: faster, less accurate integer method

JDCT_FLOAT: floating-point method

JDCT_DEFAULT: default method (normally JDCT_ISLOW)

JDCT_FASTEST: fastest method (normally JDCT_IFAST)

The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom

Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above).

(The library design allows for arbitrary scaling ratios but this

is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space

int num_components

The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform

Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).

Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.

Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding

TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval

int restart_in_rows

To emit restart markers in the JPEG file, set one of these nonzero.

Set restart_interval to specify the exact interval in MCU blocks.

Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts).

One restart marker per MCU row is often a good choice.

NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs.

If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info

int num_scans

By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array

defines a valid JPEG scan sequence. (`jpeg_simple_progression` creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean `do_fancy_downsampling`

If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate downsampling.

Default is TRUE.

For better image stability in multiple generation compression cycles

it is preferable that this value matches the corresponding

`do_fancy_upsampling` value in decompression.

int `smoothing_factor`

If non-zero, the input image is smoothed; the value should be 1 for

minimal smoothing to 100 for maximum smoothing. Consult `jcsample.c`

for details of the smoothing algorithm. The default is zero.

boolean `write_JFIF_header`

If TRUE, a JFIF APP0 marker is emitted. `jpeg_set_defaults()` and

`jpeg_set_colorspace()` set this TRUE if a JFIF-legal JPEG color space

(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 `JFIF_major_version`

UINT8 `JFIF_minor_version`

The version number to be written into the JFIF marker.

`jpeg_set_defaults()` initializes the version to 1.01 (major=minor=1).

You should set it to 1.02 (major=1, minor=2) if you plan to write

any JFIF 1.02 extension markers.

UINT8 `density_unit`

UINT16 `X_density`

UINT16 `Y_density`

The resolution information to be written into the JFIF marker;

not used otherwise. `density_unit` may be 0 for unknown,

1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1

indicating square pixels of unknown size.

boolean `write_Adobe_marker`

If TRUE, an Adobe APP14 marker is emitted. `jpeg_set_defaults()` and

`jpeg_set_colorspace()` set this TRUE if JPEG color space RGB, CMYK,

or YCCK is selected, otherwise FALSE. It is generally a bad idea

to set both `write_JFIF_header` and `write_Adobe_marker`. In fact,

you probably shouldn't change the default settings at all --- the

default behavior ensures that the JPEG file's color space can be

recognized by the decoder.

JQUANT_TBL * `quant_tbl_ptrs[NUM_QUANT_TBLS]`

Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; `jpeg_add_quant_table()` is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

```
int q_scale_factor[NUM_QUANT_TBLS]
```

Linear quantization scaling factors (percentage, initialized 100) for use with `jpeg_default_qtables()`.

See `rdswitch.c` and `cjpeg.c` for an example of usage.

Note that the `q_scale_factor[]` fields are the "linear" scales, so you have to convert from user-defined ratings via `jpeg_quality_scaling()`.

Here is an example code which corresponds to `cjpeg -quality 90,70`:

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

```
JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
```

```
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
```

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by `jpeg_set_defaults()`. If you need to allocate more table structures, `jpeg_alloc_huff_table()` may be used.

Note that optimal Huffman tables can be computed for an image by setting `optimize_coding`, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by `jpeg_start_compress()`. You can also call `jpeg_calc_jpeg_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.

JDIMENSION jpeg_height

Per-component parameters are stored in the struct `cinfo.comp_info[i]` for component number `i`. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large `comp_info[]` array is allocated by `jpeg_set_defaults()`; if you choose not to use that routine, it's up to you to allocate the array.

int component_id

The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor

int v_samp_factor

Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no

Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no

int ac_tbl_no

DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index

Must equal the component's index in `comp_info[]`. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application.

(Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control

the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by `jpeg_read_header()` and may be useful to the application in choosing decompression parameters:

JDIMENSION `image_width` Width and height of image
JDIMENSION `image_height`
int `num_components` Number of color components
J_COLOR_SPACE `jpeg_color_space` Colorspace of image
boolean `saw_JFIF_marker` TRUE if a JFIF APP0 marker was seen
UINT8 `JFIF_major_version` Version information from JFIF marker
UINT8 `JFIF_minor_version`
UINT8 `density_unit` Resolution data from JFIF marker
UINT16 `X_density`
UINT16 `Y_density`
boolean `saw_Adobe_marker` TRUE if an Adobe APP14 marker was seen
UINT8 `Adobe_transform` Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE `out_color_space`
Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jdcolor.c` if you want an unusual conversion.

unsigned int `scale_num`, `scale_denom`
Scale the image by the fraction `scale_num/scale_denom`. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by

`jpeg_read_header()` with the source DCT size. For baseline JPEG this is 8/8. If you change only the `scale_num` value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean `quantize_colors`

If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is TRUE.

int `desired_number_of_colors`

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field).

Default 256. Ignored when the application supplies its own color map.

boolean `two_pass_quantize`

If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE `dither_mode`

Selects color dithering method. Supported values are:

JDITHER_NONE no dithering: fast, very low quality

JDITHER_ORDERED ordered dither: moderate speed and quality

JDITHER_FS Floyd-Steinberg dither: slow, high quality

Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when `two_pass_quantize` is TRUE or when you supply an external color map, you'll get F-S dithering.)

When `quantize_colors` is TRUE, the target color map is described by the next two fields. `colormap` is set to NULL by `jpeg_read_header()`. The application can supply a color map by setting `colormap` non-NULL and setting `actual_number_of_colors` to the map size. Otherwise, `jpeg_start_decompress()` selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY `colormap`

The color map, represented as a 2-D pixel array of `out_color_components` rows and `actual_number_of_colors` columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by `jpeg_finish_decompress()`.

Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors

The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method

Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling

If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate upsampling.

Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing

If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without.

In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant

boolean enable_external_quant

boolean enable_2pass_quant

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings.

This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.

JDIMENSION output_height

int out_color_components Number of color components in out_color_space.

int output_components Number of color components returned.

int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB \Leftrightarrow YCbCr and CMYK \Leftrightarrow YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr

RGB => GRAYSCALE

RGB => BG_YCC

YCbCr => GRAYSCALE

YCbCr => BG_YCC

CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,

BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jtparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space.

jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB

YCbCr => GRAYSCALE

BG_YCC => RGB

BG_YCC => GRAYSCALE

RGB => GRAYSCALE

GRAYSCALE => RGB

YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.

This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCKC transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCKC representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCKC in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file `example.c` illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- * Fatal errors: the library cannot continue.
- * Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- * Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (`jerror.c`) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling `jpeg_std_error()` as usual, but then overriding some of the method pointers in the `jpeg_error_mgr` struct, as illustrated by `example.c`.

All of the error handling routines will receive a pointer to the JPEG object (a `j_common_ptr` which points to either a `jpeg_compress_struct` or a `jpeg_decompress_struct`; if you need to tell which, test the `is_decompressor` field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the `jpeg_error_mgr` struct in a larger structure that contains

additional fields; then casting the passed pointer provides access to the additional fields. Again, see `example.c` for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

`error_exit(j_common_ptr cinfo)`

Receives control for a fatal error. Information sufficient to generate the error message has been stored in `cinfo->err`; call `output_message` to display it. Control must NOT return to the caller; generally this routine will `exit()` or `longjmp()` somewhere. Typically you would override this routine to get rid of the `exit()` default behavior. Note that if you continue processing, you should clean up the JPEG object with `jpeg_abort()` or `jpeg_destroy()`.

`output_message(j_common_ptr cinfo)`

Actual output of any JPEG message. Override this to send messages somewhere other than `stderr`. Note that this method does not know how to generate a message, only where to send it.

`format_message(j_common_ptr cinfo, char * buffer)`

Constructs a readable error message string based on the error info stored in `cinfo->err`. This method is called by `output_message`. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

`emit_message(j_common_ptr cinfo, int msg_level)`

Decide whether or not to emit a warning or trace message; if so, calls `output_message`. The main reason for overriding this method would be to abort on warnings. `msg_level` is -1 for warnings, 0 and up for trace messages.

Only `error_exit()` and `emit_message()` are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field `err->jpeg_message_table`. The messages are numbered from 0 to `err->last_jpeg_message`, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See `jerror.h` for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on"

message table for this purpose. To define an add-on table, set the pointer `err->addon_message_table` and the message numbers `err->first_addon_message` and `err->last_addon_message`. If you number the add-on messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications `cjpeg/djpeg` for an example of using add-on messages (the add-on messages are defined in `cderror.h`).

Actual invocation of the error handler is done via macros defined in `jerror.h`:

`ERREXITn(...)` for fatal errors

`WARNMSn(...)` for corrupt-data warnings

`TRACEMSn(...)` for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the `error_exit()` or `emit_message()` method.

The variants of each macro are for varying numbers of additional parameters.

The additional parameters are inserted into the generated message using standard `printf()` format codes.

See `jerror.h` and `jerror.c` for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a `stdio` stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a `stdio` stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype `JOCTET`, which is generally "char" or "unsigned char". On a machine where `char` is not exactly 8 bits wide, you must define `JOCTET` as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer; /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's `empty_output_buffer` method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

`init_destination (j_compress_ptr cinfo)`

Initialize destination. This is called by `jpeg_start_compress()` before any data is actually written. It must initialize `next_output_byte` and `free_in_buffer`. `free_in_buffer` must be initialized to a positive value.

`empty_output_buffer (j_compress_ptr cinfo)`

This is called whenever the buffer has filled (`free_in_buffer` reaches zero). In typical applications, it should write out the **entire** buffer (use the saved start address and buffer length; ignore the current state of `next_output_byte` and `free_in_buffer`). Then reset the pointer & count to the start of the buffer, and return `TRUE` indicating that the buffer has been dumped. `free_in_buffer` must be set to a positive value when `TRUE` is returned. A `FALSE` return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

`term_destination (j_compress_ptr cinfo)`

Terminate destination --- called by `jpeg_finish_compress()` after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either `next_output_byte` or `free_in_buffer` to determine how much data is in the buffer.

`term_destination()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_destination_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_dest()` or `jpeg_mem_dest()` routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some

additional frammmishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;      /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's `fill_input_buffer` method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

`init_source (j_decompress_ptr cinfo)`

Initialize source. This is called by `jpeg_read_header()` before any data is actually read. Unlike `init_destination()`, it may leave `bytes_in_buffer` set to 0 (in which case a `fill_input_buffer()` call will occur immediately).

`fill_input_buffer (j_decompress_ptr cinfo)`

This is called whenever `bytes_in_buffer` has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of `next_input_byte` and `bytes_in_buffer`), reset the pointer & count to the start of the buffer, and return `TRUE` indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. `bytes_in_buffer` **MUST** be set to a positive value if `TRUE` is returned. A `FALSE` return should only be used when I/O suspension is desired (this mode is discussed in the next section).

`skip_input_data (j_decompress_ptr cinfo, long num_bytes)`

Skip `num_bytes` worth of data. The buffer pointer and count should be advanced over `num_bytes` input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. `bytes_in_buffer` may be zero on return. A zero or negative skip count should be treated as a no-op.

`resync_to_restart (j_decompress_ptr cinfo, int desired)`

This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, `jpeg_resync_to_restart()`. However, if you are able to back up in the input data stream, or if you have a-priori knowledge about

the likely location of restart markers, you may be able to do better. Read the `read_restart_marker()` and `jpeg_resync_to_restart()` routines in `jdmarker.c` if you think you'd like to implement your own resync procedure.

`term_source (j_decompress_ptr cinfo)`

Terminate source --- called by `jpeg_finish_decompress()` after all data has been read. Often a no-op.

For both `fill_input_buffer()` and `skip_input_data()`, there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via `ERREXIT()` or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. `jdatsrc.c` illustrates the recommended error recovery behavior.

`term_source()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_source_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_src()` or `jpeg_mem_src()` routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in `jdatsrc.c` and `jdatadst.c`.

I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application

and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the `empty_output_buffer()` or `fill_input_buffer()` routine is a no-op, merely returning `FALSE` to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an `empty_output_buffer()` routine that returns `FALSE`; typically it will not do anything else. This will cause the compressor to return to the caller of `jpeg_write_scanlines()`, with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call `jpeg_write_scanlines()` again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although `empty_output_buffer()` is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of `next_output_byte/free_in_buffer`. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call `jpeg_write_scanlines()` unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

- * At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
- * When you call `jpeg_finish_compress()`, there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free

before calling `jpeg_finish_compress()`.

A more significant restriction is that `jpeg_finish_compress()` cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during `jpeg_finish_compress()`, which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a `fill_input_buffer()` routine that simply returns `FALSE` (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

- * `jpeg_read_header()`: will return `JPEG_SUSPENDED`.
- * `jpeg_start_decompress()`: will return `FALSE`, rather than its usual `TRUE`.
- * `jpeg_read_scanlines()`: will return the number of scanlines already completed (possibly 0).
- * `jpeg_finish_decompress()`: will return `FALSE`, rather than its usual `TRUE`.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of `jpeg_read_scanlines()`, increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte/bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if `FALSE` is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement `bytes_in_buffer` to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then `skip_input_data()` must set `bytes_in_buffer` to zero and record the additional skip distance somewhere else. The decompressor will immediately call `fill_input_buffer()`, which should return `FALSE`, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within `fill_input_buffer()`; the latter is probably more efficient. If `fill_input_buffer()` knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return `TRUE` just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling `skip_input_data()`. In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on `skip_input_data`'s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having `empty_output_buffer()` or `fill_input_buffer()` set the pointer and count to reference the next available buffer; `FALSE` is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when `FALSE` is returned could back up into an earlier buffer. For example, when `fill_input_buffer()` is called, the current pointer & count indicate the backtrack restart point. Since `fill_input_buffer()` will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to `fill_input_buffer()` occurs in the same library call, and no additional input data is available, so `fill_input_buffer` must return `FALSE`. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes

a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a `skip_input_data()` call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when `fill_input_buffer()` is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final

higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the `scan_info` `cinfo` field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the `jpeg_simple_progression()` helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in `rdswitch.c`, so that you can read scan script files just like `cjpeg`'s.)

When `scan_info` is not `NULL`, the compression library will store DCT'd data into a buffer array as `jpeg_write_scanlines()` is called, and will emit all the requested scans during `jpeg_finish_compress()`. This implies that multiple-scan output cannot be created with a suspending data destination manager, since `jpeg_finish_compress()` does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during `jpeg_start_decompress()`, so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from `jpeg_start_decompress()`.

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the

application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
```

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by

a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

`JPEG_REACHED_SOS`: reached an SOS marker (the start of a new scan)

`JPEG_REACHED_EOI`: reached the EOI marker (end of image)

`JPEG_ROW_COMPLETED`: completed reading one MCU row of compressed data

`JPEG_SCAN_COMPLETED`: completed reading last MCU row of current scan

`JPEG_SUSPENDED`: suspended before completing any of the above

(`JPEG_SUSPENDED` can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return `JPEG_REACHED_EOI` without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()` whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to `jpeg_consume_input()`. But by adding calls to `jpeg_consume_input()`, you can absorb data in advance of what is being displayed. This has two benefits:

- * You can limit buildup of unprocessed data in your input buffer.
- * You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`.

The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns `JPEG_SUSPENDED` or `JPEG_REACHED_EOI`.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpeg_consume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```

do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);

```

rather than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```

for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the `JPEG_REACHED_EOI` return code from `jpeg_consume_input()`, or equivalently by testing `jpeg_input_complete()`.) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call `jpeg_finish_output()` and then start a new pass with `jpeg_start_output()`.

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting `JPEG_REACHED_SOS` returns and/or examining `cinfo.input_scan_number`. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any

incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call `jpeg_consume_input()` until it returns `JPEG_REACHED_SOS` or `JPEG_REACHED_EOI`. Or just use the next higher number as the target scan for `jpeg_start_output()`; but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, `jpeg_start_decompress()` never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

- * `jpeg_start_output()` performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
- * `jpeg_read_scanlines()`, as always, returns the number of scanlines that it was able to produce before suspending.
- * `jpeg_finish_output()` will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if `jpeg_consume_input()` has already reached the end of the file or a SOS marker beyond the target output scan.)
- * `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return `TRUE` if they completed their tasks, `FALSE` if they had to suspend.

In the event of a `FALSE` return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. **ONLY THE FOLLOWING** parameter changes are allowed after `jpeg_start_decompress()` is called:

- * `dct_method` can be changed before each call to `jpeg_start_output()`. For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
- * `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* `do_block_smoothing` can be changed before each call to `jpeg_start_output()`. This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.
 2. Single-pass quantization to an application-supplied colormap.
Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.
 3. Two-pass quantization to a colormap chosen specifically for the image.
Selected by `cinfo.two_pass_quantize = TRUE` and `cinfo.colormap = NULL`. (This is the default setting selected by `jpeg_read_header`, but it is probably NOT what you want for the first pass of progressive display!)
- These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call `jpeg_start_decompress()`. (If we did not require this, the `max_memory_to_use` setting would be a complete fiction.)

You do this by setting one or more of these three `cinfo` fields to TRUE:

`enable_1pass_quant` Fixed color cube colormap
`enable_external_quant` Externally-supplied colormap
`enable_2pass_quant` Two-pass custom colormap

All three are initialized FALSE by `jpeg_read_header()`. But `jpeg_start_decompress()` automatically sets TRUE the one selected by the current `two_pass_quantize` and `colormap` settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at `jpeg_start_decompress()` time, you can change to any enabled quantization method by setting `two_pass_quantize` and `colormap` properly just before calling `jpeg_start_output()`. The following special rules apply:

1. You must explicitly set `cinfo.colormap` to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call `jpeg_new_colormap()` after setting `cinfo.colormap`.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because `cinfo.colormap` will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during `jpeg_start_output()`, not during `jpeg_start_decompress()`.

When using two-pass quantization, `jpeg_start_output()` makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, `jpeg_start_output()` will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from `jpeg_start_output()` under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which `jpeg_start_output()` will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling `jpeg_has_multiple_scans()`, which will return a correct result at any time after `jpeg_read_header()` completes.

It is also worth noting that when you use `jpeg_consume_input()` to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager `jmemnobs.c` if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that `max_memory_to_use` is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use `jpeg_consume_input()` for all input processing, including reading the initial markers; that is, you may wish to call `jpeg_consume_input()` instead of `jpeg_read_header()` during startup. This works, but note that you must check for `JPEG_REACHED_SOS` and `JPEG_REACHED_EOI` return codes as the equivalent of `jpeg_read_header's` codes. Once the first SOS marker has been reached, you must call `jpeg_start_decompress()` before `jpeg_consume_input()` will consume more input; it'll just keep returning `JPEG_REACHED_SOS` until you do. If you read a tables-only file this way, `jpeg_consume_input()` will return `JPEG_REACHED_EOI` without ever returning `JPEG_REACHED_SOS`; be sure to check for this case. If this happens, the decompressor will not read any more input until you call `jpeg_abort()` to reset it. It is OK to call `jpeg_consume_input()` even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return `JPEG_SUSPENDED`.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

- * "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
- * "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
- * "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams

can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

```
create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
```

```
write data...
jpeg_finish_compress(&cinfo);
```

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the `jpeg_start_compress()` ... `jpeg_finish_compress()` sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set `optimize_coding = TRUE` when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See `jpeg_copy_critical_parameters()` for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The `jpeg_read_header()` call is sufficient to read a tables-only file. You must pass a second parameter of `FALSE` to indicate that you do not require an image to be present. Thus, the typical scenario is

```
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass `FALSE` and check the return value from `jpeg_read_header()`: it will be `JPEG_HEADER_OK` if an image was found, `JPEG_HEADER_TABLES_ONLY` if only tables were found. (A third return value, `JPEG_SUSPENDED`, is possible when using a suspending data source manager.) Note that `jpeg_read_header()` will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in `jpeg_start_decompress()`.

It is possible to read a series of images from a single source file by repeating the `jpeg_read_header() ... jpeg_finish_decompress()` sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at `term_destination()` time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing `FALSE` to `jpeg_start_compress()`.

Special markers

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling `jpeg_write_marker()` after `jpeg_start_compress()` and before the first call to `jpeg_write_scanlines()`. When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, `jpeg_write_marker` will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by `comment_text`:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the `length` parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call `jpeg_save_markers(cinfo, marker_code, length_limit)` where `marker_code` is the marker type to save, `JPEG_COM` or `JPEG_APP0+n`. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer

than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to `0xFFFF`; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by `malloc()` limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return `TRUE` to indicate success. (`FALSE` should be returned only if you are using a suspending data source and it tells you to suspend. See the standard

marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers()`; that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in `djpeg.c`. Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

Raw (downsampled) image data

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of `DCT_h_scaled_size` valid samples, and there must be a multiple of `DCT_v_scaled_size` sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a

multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. Before calling `jpeg_start_compress()`, you must do the following:

- * Set `cinfo->raw_data_in` to TRUE. (It is set FALSE by `jpeg_set_defaults()`.) This notifies the library that you will be supplying raw data.
- * Ensure `jpeg_color_space` is correct --- an explicit `jpeg_set_colorspace()` call is a good idea. Note that since color conversion is bypassed, `in_color_space` is ignored, except that `jpeg_set_defaults()` uses it to choose the default `jpeg_color_space` setting.
- * Ensure the sampling factors, `cinfo->comp_info[i].h_samp_factor` and `cinfo->comp_info[i].v_samp_factor`, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. The two routines work similarly except that `jpeg_write_raw_data` takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from `jpeg_write_raw_data` is measured in terms of the component with the largest `v_samp_factor`.

`jpeg_write_raw_data()` processes one MCU row per call, which is to say `v_samp_factor*min_DCT_v_scaled_size` sample rows of each component. The passed `num_lines` value must be at least `max_v_samp_factor*min_DCT_v_scaled_size`, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

```
cinfo->comp_info[i].width_in_blocks *  
cinfo->comp_info[i].DCT_h_scaled_size  samples per row  
cinfo->comp_info[i].height_in_blocks *  
cinfo->comp_info[i].DCT_v_scaled_size  rows in image
```

after `jpeg_start_compress()` has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than `DCT_scaled_size` samples.

An example may help here. Assume 2h2v downsampling of YCbCr data, that is

```
cinfo->comp_info[0].h_samp_factor = 2  for Y  
cinfo->comp_info[0].v_samp_factor = 2  
cinfo->comp_info[1].h_samp_factor = 1  for Cb  
cinfo->comp_info[1].v_samp_factor = 1  
cinfo->comp_info[2].h_samp_factor = 1  for Cr
```

`cinfo->comp_info[2].v_samp_factor = 1`
and suppose that the nominal image dimensions (`cinfo->image_width` and `cinfo->image_height`) are 101x101 pixels. Then `jpeg_start_compress()` will compute `downsampled_width = 101` and `width_in_blocks = 13` for Y, `downsampled_width = 51` and `width_in_blocks = 7` for Cb and Cr (and the same for the height fields). You must pad the Y data to at least $13*8 = 104$ columns and rows, the Cb/Cr data to at least $7*8 = 56$ columns and rows. The MCU height is `max_v_samp_factor = 2` DCT rows so you must pass at least 16 scanlines on each call to `jpeg_write_raw_data()`, which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of $7*16 = 112$ "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, `jpeg_write_raw_data()` will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set `cinfo->raw_data_out = TRUE` before `jpeg_start_decompress()` (it is set FALSE by `jpeg_read_header()`). Be sure to verify that the color space and sampling factors are ones you can handle. Then call `jpeg_read_raw_data()` in place of `jpeg_read_scanlines()`. The decompression process is otherwise the same as usual.

`jpeg_read_raw_data()` returns one MCU row per call, and thus you must pass a buffer of at least `max_v_samp_factor*min_DCT_v_scaled_size` scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, `jpeg_read_raw_data()` will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do `jpeg_read_header()` as usual. But instead of calling `jpeg_start_decompress()` and `jpeg_read_scanlines()`, call `jpeg_read_coefficients()`. This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's `access_virt_barray` method (see Memory management, below, and also read `structure.txt`'s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to `jpeg_write_coefficients()`.

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the `width_in_blocks` and `height_in_blocks` fields of the component's `comp_info` entry.) This is also the data format expected by `jpeg_write_coefficients()`.

When you are done using the virtual arrays, call `jpeg_finish_decompress()` to release the array storage and return the decompression object to an idle state; or just call `jpeg_destroy()` if you don't need to reuse the object.

If you use a suspending data source, `jpeg_read_coefficients()` will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call `jpeg_read_coefficients()` to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call `jpeg_read_coefficients()` after the last `jpeg_finish_output()` call. The arrays will be available for your use until you call `jpeg_finish_decompress()`.

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass

block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

- * Create compression object
- * Set all compression parameters as necessary
- * Request virtual arrays if needed
- * `jpeg_write_coefficients()`
- * `jpeg_finish_compress()`
- * Destroy or re-use compression object

`jpeg_write_coefficients()` is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to `cinfo.num_components`.

The virtual arrays need only have been requested, not realized, before `jpeg_write_coefficients()` is called. A side-effect of `jpeg_write_coefficients()` is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling `jpeg_write_coefficients()`. The data is actually written out when you call `jpeg_finish_compress()`; `jpeg_write_coefficients()` only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using `jpeg_copy_critical_parameters()`. This routine initializes all the compression parameters to default values (like `jpeg_set_defaults()`), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting `jpeg_finish_decompress()`.

`jpeg_write_coefficients()` marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like `jpeg_start_compress(cinfo, TRUE)`). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call `jpeg_suppress_tables()`, or set the tables' individual `sent_table` flags, between calling `jpeg_write_coefficients()` and `jpeg_finish_compress()`.

Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see `cjpeg.c` or `djpeg.c`.)

Although you do get control back frequently during the data-transferring pass (the `jpeg_read_scanlines` or `jpeg_write_scanlines` loop), any additional passes

will occur inside `jpeg_finish_compress` or `jpeg_start_decompress`; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of `jpeg_read_scanlines` or `jpeg_write_scanlines`, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct `jpeg_progress_mgr`, fill in its `progress_monitor` field with a pointer to your callback routine, and set `cinfo->progress` to point to the struct. The callback will be called whenever `cinfo->progress` is non-NULL. (This pointer is set to NULL by `jpeg_create_compress` or `jpeg_create_decompress`; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime `JPOOL_PERMANENT` will work nicely.) You can use the same callback routine for both compression and decompression.

The `jpeg_progress_mgr` struct contains four fields which are set by the library:

```
long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */
```

During any one pass, `pass_counter` increases from 0 up to (not including) `pass_limit`; the step size is usually but not necessarily 1. The `pass_limit` value may change from one pass to another. The expected total number of passes is in `total_passes`, and the number of passes already completed is in `completed_passes`. Thus the fraction of work completed may be estimated as

$$\frac{\text{completed_passes} + (\text{pass_counter}/\text{pass_limit})}{\text{total_passes}}$$

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, `pass_limit` can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work

estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets `total_passes` based on the assumption that there will be one more output pass if the input file end hasn't yet been read (`jpeg_input_complete()` isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that `total_passes` will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read `structure.txt`'s section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use `malloc()` and `free()` for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by `jpeg_finish_compress`, `jpeg_finish_decompress`, or `jpeg_abort`. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use `JPOOL_PERMANENT` to get storage that lasts as long as the JPEG object. Use `alloc_large` instead of `alloc_small` for anything bigger than a few Kbytes. There are also `alloc_sarray` and `alloc_barray` routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (`jmemnobs.c`), then no temporary files are used; virtual arrays are simply `malloc()`'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting `cinfo->mem->max_memory_to_use` after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before `jpeg_start_compress()` or `jpeg_start_decompress()` in order to have them counted against the max memory limit. Also keep in mind that space allocated with `alloc_small()` is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting `max_memory_to_use`.

If you use the `jmemname.c` or `jmemdos.c` memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with `jmemdos.c`, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either `jpeg_abort()` or `jpeg_destroy()` for any active JPEG objects. A handler is not needed with `jmemnobs.c`, and shouldn't be necessary with `jmemansi.c` or `jmemmac.c` either, since the C library is supposed to take care of deleting files made with `tmpfile()`.

Memory usage

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
 2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
 3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
 4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel).
- This does not count any memory allocated by the application, such as a

buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use `jmemnobs` and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the `MEM_STATS` code in `jmemmgr.c`.

Library compile-time options

A number of compile-time options are available by modifying `jmorecfg.h`.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining `BITS_IN_JSAMPLE` as 8, 9, 10, 11, or 12.

Note that a value larger than 8 causes `JSAMPLE` to be larger than a char, so it affects the surrounding application's image data.

The sample applications `cjpeg` and `djpeg` can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit `cjpeg` or `djpeg`. (`install.txt` has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (`jpegtran`) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining `NEED_SHORT_EXTERNAL_NAMES` for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

char is at least 8 bits wide

short is at least 16 bits wide

int is at least 16 bits wide

long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in `jmorecfg.h`. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in `cjpeg/djpeg` do have ASCII dependencies in file-header manipulation; so does `cjpeg's select_file_type()` routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (`cjpeg/djpeg` are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining `NEED_SHORT_EXTERNAL_NAMES`.

More info about porting the code may be gleaned by reading `jconfig.txt`, `jmorecfg.h`, and `jinclue.h`.

Notes for MS-DOS implementors

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile `cjpeg` or `djpeg` by itself, but you will probably have to use

medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by `jdatasrc.c` and `jdatadst.c`, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on `jerror.c`.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/libjpeg.txt

No license file was found, but licenses were detected in source scan.

/*

* jchuff.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2006-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains Huffman entropy encoding routines.

* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jchuff.c

No license file was found, but licenses were detected in source scan.

/*

* wrjpgcom.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a very simple stand-alone application that inserts

* user-supplied text as a COM (comment) marker in a JFIF file.

* This may be useful as an example of the minimum logic needed to parse

* JPEG markers.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/wrjpgcom.c

No license file was found, but licenses were detected in source scan.

/*

* rdswitch.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2003-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to process some of cjpeg's more complicated

* command-line switches. Switches processed here are:

* -qtables file Read quantization tables from text file

* -scans file Read scan script from text file

* -quality N[,N,...] Set quality ratings

* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/rdswitch.c

No license file was found, but licenses were detected in source scan.

/*

* jmemansi.c

*

* Copyright (C) 1992-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides a simple generic implementation of the system-

* dependent portion of the JPEG memory manager. This implementation

* assumes that you have the ANSI-standard library routine tmpfile().

* Also, the problem of determining the amount of memory available

* is shoved onto the user.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jmemansi.c

No license file was found, but licenses were detected in source scan.

/*

* jidctfst.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a fast, not so accurate integer implementation of the

* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

* must also perform dequantization of the input coefficients.

*

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT

* on each row (or vice versa, but it's more convenient to emit a row at

* a time). Direct algorithms are also available, but they are much more

* complex and seem not to be any faster when reduced to code.

*

* This implementation is based on Arai, Agui, and Nakajima's algorithm for

* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in

* Japanese, but the algorithm is described in the Pennebaker & Mitchell

* JPEG textbook (see REFERENCES section in file README). The following code

* is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jidctfst.c

No license file was found, but licenses were detected in source scan.

/*

* transupp.c

*

* Copyright (C) 1997-2019, Thomas G. Lane, Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/transupp.c

No license file was found, but licenses were detected in source scan.

/*

* rdjpgcom.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 2009 by Bill Allombert, Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.

* This may be useful as an example of the minimum logic needed to parse

* JPEG markers.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/rdjpgcom.c

No license file was found, but licenses were detected in source scan.

/*

* jcapistd.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface code for the compression half

* of the JPEG library. These are the "standard" API routines that are

* used in the normal full-compression case. They are not used by a

* transcoding-only application. Note that if an application links in

* jpeg_start_compress, it will end up linking in the entire compressor.

* We thus must separate this file from jcapimin.c to avoid linking the

* whole compression library into a transcoder.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcapistd.c

No license file was found, but licenses were detected in source scan.

/*

* jdcoefct.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 2002-2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the coefficient buffer controller for decompression.

* This controller is the top level of the JPEG decompressor proper.

* The coefficient buffer lies between entropy decoding and inverse-DCT steps.

*

* In buffered-image mode, this controller is the interface between

* input-oriented processing and output-oriented processing.

* Also, the input side (only) is used when reading a file for transcoding.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdcoefct.c

No license file was found, but licenses were detected in source scan.

/*

```
* jdtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* Modified 2000-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdtrans.c
```

No license file was found, but licenses were detected in source scan.

```
/*
* jdhuft.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdhuft.c
```

No license file was found, but licenses were detected in source scan.

```
/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
```

* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
* virtual arrays;
* * control logic for swapping virtual arrays between main memory and
* backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jmemmgr.c

No license file was found, but licenses were detected in source scan.

/*

* jmemnobs.c

*

* Copyright (C) 1992-1996, Thomas G. Lane.

* Modified 2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().

* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.

* Note that the max_memory_to_use option is respected by this implementation.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jmemnobs.c

No license file was found, but licenses were detected in source scan.

/*

* jdinput.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2002-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuft.c, and jdarith.c.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdinput.c
No license file was found, but licenses were detected in source scan.

/*

* jtparam.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2003-2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jtparam.c
No license file was found, but licenses were detected in source scan.

/*

* jdarith.c

*

* Developed 1997-2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy decoding routines for JPEG
* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdarith.c

No license file was found, but licenses were detected in source scan.

```
/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 1997-2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */
```

Found in path(s):

```
* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jpegint.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * jmemmac.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * jmemmac.c provides an Apple Macintosh implementation of the system-
 * dependent portion of the JPEG memory manager.
 *
 * If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
 * JPEG_INTERNALS part of jconfig.h.
 *
 * jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
 * instead of malloc and free. It accurately determines the amount of
 * memory available by using CompactMem. Notice that if left to its
 * own devices, this code can chew up all available space in the
 * application's zone, with the exception of the rather small "slop"
 * factor computed in jpeg_mem_available(). The application can ensure
 * that more space is left over by reducing max_memory_to_use.
 *
 * Large images are swapped to disk using temporary files and System 7.0+'s
 * temporary folder functionality.
 *
 * Note that jmemmac.c depends on two features of MacOS that were first
 * introduced in System 7: FindFolder and the FSSpec-based calls.
 * If your application uses jmemmac.c and is run under System 6 or earlier,
 * and the jpeg library decides it needs a temporary file, it will abort,
 * printing error messages about requiring System 7. (If no temporary files
```

* are created, it will run fine.)
 *
 * If you want to use jmemmac.c in an application that might be used with
 * System 6 or earlier, then you should remove dependencies on FindFolder
 * and the FSSpec calls. You will need to replace FindFolder with some
 * other mechanism for finding a place to put temporary files, and you
 * should replace the FSSpec calls with their HFS equivalents:
 *
 * FSpDelete -> HDelete
 * FSpGetFInfo -> HGetFInfo
 * FSpCreate -> HCreate
 * FSpOpenDF -> HOpen *** Note: not HOpenDF ***
 * FSMakeFSSpec -> (fill in spec by hand.)
 *
 * (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
 * which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
 * ages-old problem of names starting with a period.)
 *
 * Contributed by Sam Bushell (jsam@iagu.on.net) and
 * Dan Gildor (gyld@in-touch.com).
 */

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jmemmac.c

No license file was found, but licenses were detected in source scan.

/*

* jfdctflt.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2003-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a floating-point implementation of the

* forward DCT (Discrete Cosine Transform).

*

* This implementation should be more accurate than either of the integer

* DCT implementations. However, it may not give the same results on all

* machines because of differences in roundoff behavior. Speed will depend

* on the hardware's floating point capacity.

*

* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT

* on each column. Direct algorithms are also available, but they are

* much more complex and seem not to be any faster when reduced to code.

*

* This implementation is based on Arai, Agui, and Nakajima's algorithm for

* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in

- * Japanese, but the algorithm is described in the Pennebaker & Mitchell
- * JPEG textbook (see REFERENCES section in file README). The following code
- * is based directly on figure 4-8 in P&M.
- * While an 8-point DCT cannot be done in less than 11 multiplies, it is
- * possible to arrange the computation so that many of the multiplies are
- * simple scalings of the final outputs. These multiplies can then be
- * folded into the multiplications or divisions by the JPEG quantization
- * table entries. The AA&N method leaves only 5 multiplies and 29 adds
- * to be done in the DCT itself.
- * The primary disadvantage of this method is that with a fixed-point
- * implementation, accuracy is lost due to imprecise representation of the
- * scaled quantization values. However, that problem does not arise if
- * we use floating point arithmetic.
- */

Found in path(s):

- * /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jfdctflt.c

No license file was found, but licenses were detected in source scan.

/*

- * jcmaint.c
- *
- * Copyright (C) 1994-1996, Thomas G. Lane.
- * Modified 2003-2012 by Guido Vollbeding.
- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains the main buffer controller for compression.
- * The main buffer lies between the pre-processor and the JPEG
- * compressor proper; it holds downsampled data in the JPEG colorspace.
- */

Found in path(s):

- * /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jcmaint.c

No license file was found, but licenses were detected in source scan.

/*

- * jmorecfg.h
- *
- * Copyright (C) 1991-1997, Thomas G. Lane.
- * Modified 1997-2013 by Guido Vollbeding.
- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains additional configuration options that customize the
- * JPEG software for special applications or support machine-dependent
- * optimizations. Most users will not need to touch this file.
- */

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jmorecfg.h

No license file was found, but licenses were detected in source scan.

/*

* wrppm.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2009-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in PPM/PGM format.

* The extended 2-byte-per-sample raw PPM/PGM formats are supported.

* The PBMPLUS library is NOT required to compile this software

* (but it is highly useful as a set of PPM image manipulation programs).

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/wrppm.c

No license file was found, but licenses were detected in source scan.

/*

* jfdctfst.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2003-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a fast, not so accurate integer implementation of the

* forward DCT (Discrete Cosine Transform).

*

* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT

* on each column. Direct algorithms are also available, but they are

* much more complex and seem not to be any faster when reduced to code.

*

* This implementation is based on Arai, Agui, and Nakajima's algorithm for

* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in

* Japanese, but the algorithm is described in the Pennebaker & Mitchell

* JPEG textbook (see REFERENCES section in file README). The following code

* is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is

- * possible to arrange the computation so that many of the multiplies are
- * simple scalings of the final outputs. These multiplies can then be
- * folded into the multiplications or divisions by the JPEG quantization
- * table entries. The AA&N method leaves only 5 multiplies and 29 adds
- * to be done in the DCT itself.
- * The primary disadvantage of this method is that with fixed-point math,
- * accuracy is lost due to imprecise representation of the scaled
- * quantization values. The smaller the quantization table entry, the less
- * precise the scaled value, so this implementation does worse with high-
- * quality-setting files than with low-quality ones.

Found in path(s):

`*/opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jfdctfst.c`

No license file was found, but licenses were detected in source scan.

/*

* rdbmp.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2009-2019 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to read input images in Microsoft "BMP"

* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).

* Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or

* 4-bit (feeding such low-depth images into JPEG would be silly anyway).

* Also, we don't support RLE-compressed files.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume input from

* an ordinary stdio stream. They further assume that reading begins

* at the start of the file; start_input may need work if the

* user interface has already read some data (e.g., to determine that

* the file is indeed BMP format).

*

* This code contributed by James Arthur Boucher.

*/

Found in path(s):

`*/opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/rdbmp.c`

No license file was found, but licenses were detected in source scan.

/*

* jdcolor.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2011-2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*

* cdjpeg.c

/*

* Copyright (C) 1991-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

/*

* This file contains common support routines used by the IJG application

* programs (cjpeg, djpeg, jpegtran).

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*

* jinclude.h

/*

* Copyright (C) 1991-1994, Thomas G. Lane.

* Modified 2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

/*

* This file exists to provide a single place to fix any problems with

* including the wrong system include files. (Common problems are taken

* care of by the standard jconfig symbols, but on really weird systems

* you may have to edit this file.)

/*

* NOTE: this file is NOT intended to be included by applications using the

* JPEG library. Most applications need only include jpeglib.h.

*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jinclude.h
No license file was found, but licenses were detected in source scan.

/*

* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdmaster.c

No license file was found, but licenses were detected in source scan.

/*
* jdapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdapistd.c

No license file was found, but licenses were detected in source scan.

/*
* jdsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2002-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains upsampling routines.
*
*/

- * Upsampling input data is counted in "row groups". A row group
- * is defined to be $(v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)$
- * sample rows of each component. Upsampling will normally produce
- * $max_v_samp_factor$ pixel rows from each row group (but this could vary
- * if the upsampler is applying a scale factor of its own).
- *
- * An excellent reference for image resampling is
- * Digital Image Warping, George Wolberg, 1990.
- * Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
- */

Found in path(s):

* /opt/cola/permits/1095780917_1601546048.33/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdsample.c

1.121 beautiful-soup 4.9.3

1.121.1 Available under license :

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1.122 net-snmp 5.9.1

1.122.1 Available under license :

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1.124 pcre 8.45

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End

1.125 procps 3.3.17

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1.128 dri2proto 2.8

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1.129 glproto 1.4.17

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1.131 xinetd 2.3.15.4

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1.132 babeltrace v2.0.4

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Mathieu Desnoyers

September 26, 2010

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1.133 Ittng-urcu v0.13.0

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Version 2.1, February 1999

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That's all there is to it!

Mathieu Desnoyers

May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:

<https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html>

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009 :

<http://lkml.org/lkml/2009/5/13/16>

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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

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

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

changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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1.137 jsxapi 5.1.1

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1.138 cJSON 1.1.0

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1.139 lodash 4.17.21

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1.143 d3-format 3.1.0

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1.144 pica 9.0.1

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1.145 libzip 1.2.0

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1.146 libseccomp 2.5.3

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1.147 icu 70

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```
## -*-makefile-*-
```

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```

```
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```

```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```
## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
```

```
LIBCPPFLAGS =
```

```
## Compiler switch to embed a runtime search path
```

```
LD_RPATH=
```

```
LD_RPATH_PRE= -Wl,-rpath,
```

```
## Compiler switch to embed a library name
```

```
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

```
## Shared library options
```

```
LD_SOOPTIONS= -Wl,-Bsymbolic
```

```
## Shared object suffix
```

```
SO = so
```

```

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

```

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#
#
# The word list in cjdict.txt are generated by combining three word lists
```

```

# listed below with further processing for compound word breaking. The
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```

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1.148 androidx.preference.preference 1.1.1

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```

```
# Preference objects are inflated via reflection
-keep public class androidx.preference.Preference {
    public <init>(android.content.Context, android.util.AttributeSet);
}
-keep public class * extends androidx.preference.Preference {
    public <init>(android.content.Context, android.util.AttributeSet);
}
```

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1.149 wayland 1.20.0

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1.150 listenablefuture 1.0

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jar/com/google/common/util/concurrent/ListenableFuture.java

1.151 prop-types 15.8.1

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1.152 node.js 12.22.10

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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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```
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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```
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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// Original can be found at:

// <https://bitbucket.org/lindenlab/lld>

// Modifications by Joshua Bell inexorable@lindenlab.com

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// * Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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'openssl/crypto/x509v3/v3_utl.c',
'openssl/crypto/x509v3/v3err.c',
'openssl/engines/e_capi.c',
'openssl/engines/e_padlock.c',
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'openssl_sources_BSD-x86': [
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  './config/archs/BSD-x86/asm_avx2/crypto/aes/vpaes-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/bf/bf-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/bn-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/co-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/x86-gf2m.s',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/x86-mont.s',
  './config/archs/BSD-x86/asm_avx2/crypto/camellia/cmll-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/chacha/chacha-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/des/crypt586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/des/des-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/ec/ecp_nistz256-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/md5/md5-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/modes/ghash-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/poly1305/poly1305-x86.s',
  './config/archs/BSD-x86/asm_avx2/crypto/rc4/rc4-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/ripemd/rmd-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha1-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha256-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha512-586.s',
  './config/archs/BSD-x86/asm_avx2/crypto/whirlpool/wp-mmx.s',
  './config/archs/BSD-x86/asm_avx2/crypto/x86cpuid.s',
  './config/archs/BSD-x86/asm_avx2/engines/e_padlock-x86.s',
],
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  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_PIC',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_BN_ASM_PART_WORDS',
  'OPENSSL_IA32_SSE2',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_GF2m',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'RC4_ASM',
  'MD5_ASM',
  'RMD160_ASM',
  'AESNI_ASM',
  'VPAES_ASM',
  'WHIRLPOOL_ASM',
  'GHASH_ASM',
  'ECP_NISTZ256_ASM',
  'POLY1305_ASM',
],
'openssl_cflags_BSD-x86': [

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'-Wa,--noexecstack',
'-Wall -O3 -fomit-frame-pointer',
'-pthread',
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  '-pthread',
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'include_dirs': [
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  './crypto',
  './crypto/include/internal',
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'cflags': ['<@(openssl_cflags_BSD-x86)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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""""

spdx-license-ids

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Installation

[Download JSON directly](<https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json>), or
[use](<https://docs.npmjs.com/cli/install>) [npm](<https://docs.npmjs.com/about-npm/>):

...

```
npm install spdx-license-ids
```

...

[Node.js](<https://nodejs.org/>) API

```
### require('spdx-license-ids')
```

Type: `string[]`

All license IDs except for the currently deprecated ones.

```
```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```
ids.includes('BSD-3-Clause'); //=> true
```

```
ids.includes('CC-BY-1.0'); //=> true
```

```
ids.includes('GPL-3.0'); //=> false
```

...

```
require('spdx-license-ids/deprecated')
```

Type: `string[]`

Deprecated license IDs.

```
```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]
```

```
deprecatedIds.includes('BSD-3-Clause'); //=> false
```

```
deprecatedIds.includes('CC-BY-1.0'); //=> false
```

```
deprecatedIds.includes('GPL-3.0'); //=> true
```

...

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'KECCAK1600_ASM',
'RC4_ASM',
'MD5_ASM',
'AESNI_ASM',
'VPAES_ASM',
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'sources': ['<@(openssl_cli_srcs_BSD-x86_64)'],
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'openssl/crypto/whrlpool/wp_dgst.c',
'openssl/crypto/x509/by_dir.c',
'openssl/crypto/x509/by_file.c',
'openssl/crypto/x509/t_crl.c',
'openssl/crypto/x509/t_req.c',
'openssl/crypto/x509/t_x509.c',
'openssl/crypto/x509/x509_att.c',
'openssl/crypto/x509/x509_cmp.c',
'openssl/crypto/x509/x509_d2.c',
'openssl/crypto/x509/x509_def.c',
'openssl/crypto/x509/x509_err.c',
'openssl/crypto/x509/x509_ext.c',

'openssl/crypto/x509/x509_lu.c',
'openssl/crypto/x509/x509_meth.c',
'openssl/crypto/x509/x509_obj.c',
'openssl/crypto/x509/x509_r2x.c',
'openssl/crypto/x509/x509_req.c',
'openssl/crypto/x509/x509_set.c',
'openssl/crypto/x509/x509_trs.c',
'openssl/crypto/x509/x509_txt.c',
'openssl/crypto/x509/x509_v3.c',
'openssl/crypto/x509/x509_vfy.c',
'openssl/crypto/x509/x509_vpm.c',
'openssl/crypto/x509/x509cset.c',
'openssl/crypto/x509/x509name.c',
'openssl/crypto/x509/x509rset.c',
'openssl/crypto/x509/x509spki.c',
'openssl/crypto/x509/x509type.c',
'openssl/crypto/x509/x_all.c',
'openssl/crypto/x509/x_attrib.c',
'openssl/crypto/x509/x_crl.c',
'openssl/crypto/x509/x_exten.c',
'openssl/crypto/x509/x_name.c',
'openssl/crypto/x509/x_pubkey.c',
'openssl/crypto/x509/x_req.c',
'openssl/crypto/x509/x_x509.c',
'openssl/crypto/x509/x_x509a.c',
'openssl/crypto/x509v3/pcy_cache.c',
'openssl/crypto/x509v3/pcy_data.c',
'openssl/crypto/x509v3/pcy_lib.c',
'openssl/crypto/x509v3/pcy_map.c',
'openssl/crypto/x509v3/pcy_node.c',
'openssl/crypto/x509v3/pcy_tree.c',
'openssl/crypto/x509v3/v3_addr.c',
'openssl/crypto/x509v3/v3_admis.c',
'openssl/crypto/x509v3/v3_akey.c',
'openssl/crypto/x509v3/v3_akeya.c',
'openssl/crypto/x509v3/v3_alt.c',
'openssl/crypto/x509v3/v3_asid.c',
'openssl/crypto/x509v3/v3_bcons.c',
'openssl/crypto/x509v3/v3_bitst.c',
'openssl/crypto/x509v3/v3_conf.c',
'openssl/crypto/x509v3/v3_cpols.c',
'openssl/crypto/x509v3/v3_crl.c',
'openssl/crypto/x509v3/v3_enum.c',
'openssl/crypto/x509v3/v3_extku.c',
'openssl/crypto/x509v3/v3_genn.c',
'openssl/crypto/x509v3/v3_ia5.c',
'openssl/crypto/x509v3/v3_info.c',
'openssl/crypto/x509v3/v3_int.c',


```

'openssl/crypto/x509v3/v3_lib.c',
'openssl/crypto/x509v3/v3_ncons.c',
'openssl/crypto/x509v3/v3_pci.c',
'openssl/crypto/x509v3/v3_pcia.c',
'openssl/crypto/x509v3/v3_pcons.c',
'openssl/crypto/x509v3/v3_pku.c',
'openssl/crypto/x509v3/v3_pmaps.c',
'openssl/crypto/x509v3/v3_prn.c',
'openssl/crypto/x509v3/v3_purp.c',
'openssl/crypto/x509v3/v3_skey.c',
'openssl/crypto/x509v3/v3_sxnet.c',
'openssl/crypto/x509v3/v3_tlsf.c',
'openssl/crypto/x509v3/v3_utl.c',
'openssl/crypto/x509v3/v3err.c',
'openssl/engines/e_capi.c',
'openssl/engines/e_padlock.c',
],
'openssl_sources_BSD-x86_64': [
'./config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-mb-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha1-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha256-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/aes/vpaes-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-avx2.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-x86_64.s',
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'./config/archs/BSD-x86_64/asm_avx2/crypto/chacha/chacha-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/ec/ecp_nistz256-x86_64.s',
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'./config/archs/BSD-x86_64/asm_avx2/crypto/md5/md5-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/modes/aesni-gcm-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/modes/ghash-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/poly1305/poly1305-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-md5-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/sha/keccak1600-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-mb-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-mb-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha512-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/whrlpool/wp-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/x86_64cpuid.s',
'./config/archs/BSD-x86_64/asm_avx2/engines/e_padlock-x86_64.s',
],

```

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'openssl_defines_BSD-x86_64': [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_PIC',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_MONT5',
  'OPENSSL_BN_ASM_GF2m',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'KECCAK1600_ASM',
  'RC4_ASM',
  'MD5_ASM',
  'AESNI_ASM',
  'VPAES_ASM',
  'GHASH_ASM',
  'ECP_NISTZ256_ASM',
  'X25519_ASM',
  'POLY1305_ASM',
],
'openssl_cflags_BSD-x86_64': [
  '-Wa,--noexecstack',
  '-Wall -O3',
  '-pthread',
  '-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
  '-pthread',
],
},
'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
],
'defines': ['<@(openssl_defines_BSD-x86_64)'],
'cflags': ['<@(openssl_cflags_BSD-x86_64)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
}

```

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{
'variables': {
'openssl_defines_BSD-x86': [
'NDEBUG',
'L_ENDIAN',
'OPENSSL_PIC',
'OPENSSL_CPUID_OBJ',
'OPENSSL_BN_ASM_PART_WORDS',
'OPENSSL_IA32_SSE2',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'RC4_ASM',
'MD5_ASM',
'RMD160_ASM',
'AESNI_ASM',
'VPAES_ASM',
'WHIRLPOOL_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
'POLY1305_ASM',
],
'openssl_cflags_BSD-x86': [
'-Wa,--noexecstack',
'-Wall -O3 -fomit-frame-pointer',
```

```
'-pthread',
'-Wall -O3 -fomit-frame-pointer',
],
'openssl_ex_libs_BSD-x86': [
  '-pthread',
],
'openssl_cli_srcs_BSD-x86': [
  'openssl/apps/asn1pars.c',
  'openssl/apps/ca.c',
  'openssl/apps/ciphers.c',
  'openssl/apps/cms.c',
  'openssl/apps/crl.c',
  'openssl/apps/crl2p7.c',
  'openssl/apps/dgst.c',
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  'openssl/apps/rsautl.c',
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  'openssl/apps/s_server.c',
  'openssl/apps/s_time.c',
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  'openssl/apps/smime.c',
  'openssl/apps/speed.c',
  'openssl/apps/spkac.c',
```



```

'openssl/apps/srp.c',
'openssl/apps/storeutl.c',
'openssl/apps/ts.c',
'openssl/apps/verify.c',
'openssl/apps/version.c',
'openssl/apps/x509.c',
'openssl/apps/app_rand.c',
'openssl/apps/apps.c',
'openssl/apps/bf_prefix.c',
'openssl/apps/opt.c',
'openssl/apps/s_cb.c',
'openssl/apps/s_socket.c',
],
},
'defines': ['<@(openssl_defines_BSD-x86)'],
'include_dirs': [
'./include',
],
'cflags' : ['<@(openssl_cflags_BSD-x86)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
'sources': ['<@(openssl_cli_srcs_BSD-x86)'],
}

```

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
 validForOldPackages: false,
 validForNewPackages: false,
 warnings: [
 'license should be ' +
 'a valid SPDX license expression (without "LicenseRef"), ' +
 '"UNLICENSED", or ' +
 '"SEE LICENSE IN <filename>"',
 'license is similar to the valid expression "Apache-2.0"'
]
 }
);
```
```

```
}  
);  
...
```

SPDX expressions are valid, too ...

```
```javascript  
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
...
```

... except if they contain `LicenseRef`:

```
```javascript  
var warningAboutLicenseRef = {  
  validForOldPackages: false,  
  validForNewPackages: false,  
  spdx: true,  
  warnings: [  
    'license should be ' +  
    'a valid SPDX license expression (without "LicenseRef")', ' +  
    "'UNLICENSED', or ' +  
    "'SEE LICENSE IN <filename>'",  
  ]  
};  
  
assert.deepEqual(  
  valid('LicenseRef-Made-Up'),  
  warningAboutLicenseRef  
);  
  
assert.deepEqual(  
  valid('(MIT OR LicenseRef-Made-Up)'),  
  warningAboutLicenseRef  
);  
...
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```
```javascript  
assert.deepEqual(
 valid('SEE LICENSE IN LICENSE.txt'),
 {
 validForNewPackages: true,
 }
);
...
```

```

 validForOldPackages: true,
 inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
 validForNewPackages: true,
 validForOldPackages: true,
 inFile: 'license.md'
 }
);
```

```

If there aren't any licensing terms, use `UNLICENSED`:

```

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENSED'), unlicensed);
```

```

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```
{  
'variables': {  
  'openssl_sources': [  
    'openssl/ssl/bio_ssl.c',  
    'openssl/ssl/d1_lib.c',  
    'openssl/ssl/d1_msg.c',  
    'openssl/ssl/d1_srtp.c',  
    'openssl/ssl/methods.c',  
    'openssl/ssl/packet.c',  
    'openssl/ssl/pqueue.c',  
    'openssl/ssl/record/dtls1_bitmap.c',  
    'openssl/ssl/record/rec_layer_d1.c',  
    'openssl/ssl/record/rec_layer_s3.c',  
    'openssl/ssl/record/ssl3_buffer.c',  
    'openssl/ssl/record/ssl3_record.c',  
    'openssl/ssl/record/ssl3_record_tls13.c',  
    'openssl/ssl/s3_cbc.c',  
    'openssl/ssl/s3_enc.c',  
    'openssl/ssl/s3_lib.c',  
    'openssl/ssl/s3_msg.c',
```

'openssl/ssl/ssl_asn1.c',
'openssl/ssl/ssl_cert.c',
'openssl/ssl/ssl_ciph.c',
'openssl/ssl/ssl_conf.c',
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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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```
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```

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

<signature of Ty Coon>, 1 April 1989
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.158 libvpx 1.11.0

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1.159 zlib 1.2.12

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1.165 linux-kernel 5.15.32

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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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1.167 icu 71

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic
```

```

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =

```

STATIC_PREFIX =

End BSD-specific setup

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File: aclocal.m4 (only for ICU4C)

Section: pkg.m4 - Macros to locate and utilise pkg-config.

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1.173 grpc 1.21.0-16

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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```
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```

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

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1.179 react-table 7.8.0

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1.180 io-ts-reporters 2.0.1

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1.181 libnsl 2.0.0

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```
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```

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1.182 e2fsprogs 1.46.5

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

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

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

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

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

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

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

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

```
install-strip: install
```

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM) -rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

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

- trivial database library - private includes

-

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Theodore Ts'o

23-June-2007

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

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

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

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

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.183 libqrencode 3.4.1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.184 libmnl 1.0.5

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.185 moment 2.29.4

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1.186 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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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://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

*/

1.187 llvm 3.8.275480

1.187.1 Available under license :

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py

; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

```
define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
```

```
; CHECK-LABEL: PR41535:
```

```
; CHECK:     // %bb.0:
```

```

; CHECK-NEXT:  ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:  mov v0.d[1], v0.d[0]
; CHECK-NEXT:  ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
# People who have agreed to one of the CLAs and can contribute patches.
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# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# The agreement for individuals can be filled out on the web.
#
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# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.
#
# Names should be added to this file as:
#   Name <email address>
#
# Please keep the list sorted.

```

```

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Min-Yih Hsu <yihshyng223@gmail.com>
; RUN: llc <%s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right

; register classes.

```
define void @autogen_SD4739(i8*) {  
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register  
BB:  
%L34 = load i8, i8* %0  
%Cmp56 = icmp sgt i8 undef, %L34  
br label %CF246
```

```
CF246:                                ; preds = %CF246, %BB  
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef  
br i1 undef, label %CF246, label %CF248
```

```
CF248:                                ; preds = %CF248, %CF246  
store i8 %S1163, i8* %0  
br label %CF248  
}
```

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; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -scalarize-masked-mem-intrin -S < %s | FileCheck %s

; Testing that masked gathers operating on scalable vectors that are

; packed in SVE registers are not scalarized.

```
; CHECK-LABEL: @masked_gather_nxv4i32(  
; CHECK: call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32  
define <vscale x 4 x i32> @masked_gather_nxv4i32(<vscale x 4 x i32*> %ld, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru) {  
%res = call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ld, i32 0, <vscale x 4 x i1>  
%masks, <vscale x 4 x i32> %passthru)  
ret <vscale x 4 x i32> %res  
}
```

; Testing that masked gathers operating on scalable vectors of FP data

; that is packed in SVE registers are not scalarized.

```

; CHECK-LABEL: @masked_gather_nxv2f64(
; CHECK: call <vscale x 2 x double> @llvm.masked.gather.nxv2f64
define <vscale x 2 x double> @masked_gather_nxv2f64(<vscale x 2 x double*> %ld, <vscale x 2 x i1> %masks,
<vscale x 2 x double> %passthru) {
    %res = call <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ld, i32 0, <vscale x 2 x
i1> %masks, <vscale x 2 x double> %passthru)
    ret <vscale x 2 x double> %res
}

```

; Testing that masked gathers operating on scalable vectors of FP data
; that is unpacked in SVE registers are not scalarized.

```

; CHECK-LABEL: @masked_gather_nxv2f16(
; CHECK: call <vscale x 2 x half> @llvm.masked.gather.nxv2f16
define <vscale x 2 x half> @masked_gather_nxv2f16(<vscale x 2 x half*> %ld, <vscale x 2 x i1> %masks, <vscale
x 2 x half> %passthru) {
    %res = call <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ld, i32 0, <vscale x 2 x i1>
%masks, <vscale x 2 x half> %passthru)
    ret <vscale x 2 x half> %res
}

```

; Testing that masked gathers operating on 64-bit fixed vectors are
; scalarized because NEON doesn't have support for masked gather
; instructions.

```

; CHECK-LABEL: @masked_gather_v2f32(
; CHECK-NOT: @llvm.masked.gather.v2f32(
define <2 x float> @masked_gather_v2f32(<2 x float*> %ld, <2 x i1> %masks, <2 x float> %passthru) {
    %res = call <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ld, i32 0, <2 x i1> %masks, <2 x float>
%passthru)
    ret <2 x float> %res
}

```

; Testing that masked gathers operating on 128-bit fixed vectors are
; scalarized because NEON doesn't have support for masked gather
; instructions and because we are not targeting fixed width SVE.

```

; CHECK-LABEL: @masked_gather_v4i32(
; CHECK-NOT: @llvm.masked.gather.v4i32(
define <4 x i32> @masked_gather_v4i32(<4 x i32*> %ld, <4 x i1> %masks, <4 x i32> %passthru) {
    %res = call <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ld, i32 0, <4 x i1> %masks, <4 x i32> %passthru)
    ret <4 x i32> %res
}

```

```

declare <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ptrs, i32 %align, <vscale x 4 x i1>
%masks, <vscale x 4 x i32> %passthru)

```

```

declare <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ptrs, i32 %align, <vscale x

```



```
2 x i1> %masks, <vscale x 2 x double> %passthru)
declare <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ptrs, i32 %align, <vscale x 2 x
i1> %masks, <vscale x 2 x half> %passthru)
declare <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ptrs, i32 %align, <2 x i1> %masks, <2 x float>
%passthru)
declare <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ptrs, i32 %align, <4 x i1> %masks, <4 x i32>
%passthru)
```

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```

file.
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
check-attributes --check-globals
; RUN: opt -attributor -enable-new-pm=0 -attributor-manifest-internal -attributor-max-iterations-verify -attributor-
annotate-decl-cs -attributor-max-iterations=6 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM,IS__TUNIT____,IS____OP
M,IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -
attributor-annotate-decl-cs -attributor-max-iterations=6 -S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS____NP
M,IS__TUNIT_NPM
; RUN: opt -attributor-cgsc -enable-new-pm=0 -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s |
FileCheck %s --check-
prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_NPM,IS__CGSCC____,IS____OP
M,IS__CGSCC_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgsc -attributor-manifest-internal -attributor-annotate-decl-cs -
S < %s | FileCheck %s --check-
prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_OPM,IS__CGSCC____,IS____NP
M,IS__CGSCC_NPM
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

```

```
target triple = "x86_64-unknown-linux-gnu"
```

```

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
;
; IS____OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS____OPM-LABEL: define
{[[@+]]} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS____OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR0:[0-9]+]] {
; IS____OPM-NEXT: bb:
; IS____OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS____OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS____OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define
{[[@+]]} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR0:[0-9]+]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64

```

```

; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define
{[[@]+]}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR0:[0-9]+]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG]], align 64
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {[[@]+]}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR0]] {
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6:[0-9]+]]
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7:[0-9]+]]
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {[[@]+]}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR0]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly

```

```

align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6:[0-9]+]]
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7:[0-9]+]]
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define { {[^@]+} } @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR0]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6:[0-9]+]]
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7:[0-9]+]]
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define { {[^@]+} } @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR0]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6:[0-9]+]]
; IS__CGSCC_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7:[0-9]+]]
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32

```



```

%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
;
; IS_____OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS_____OPM-LABEL: define
{[[@+]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS_____OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR1:[0-9]+]] {
; IS_____OPM-NEXT: bb:
; IS_____OPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_____OPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_____OPM-NEXT:  ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define
{[[@+]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR1:[0-9]+]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define
{[[@+]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR1:[0-9]+]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG]], align 64
; IS__CGSCC_NPM-NEXT:  ret void
;

```

```

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7]]
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR1]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32

```

```

; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{{^@+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR1]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7]]
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
;
; IS_____OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS_____OPM-LABEL: define

```

```

{{{^@+}}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS_____OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR1]] {
; IS_____OPM-NEXT: bb:
; IS_____OPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_____OPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_____OPM-NEXT:  ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define
{{{^@+}}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR1]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define
{{{^@+}}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR1]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG]], align 64
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR0]] {
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*

```

```

; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_OPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__TUNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:  ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR0]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7]]
; IS__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR0]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_OPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)

```

```

[[ARG:%.*]] #[[ATTR0]] {
; IS_CGSCC_NPM-NEXT: bb:
; IS_CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS_CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS_CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS_CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS_CGSCC_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS_CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7]]
; IS_CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS_CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS_CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
;
; IS_____OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS_____OPM-LABEL: define
{[^[^@]+]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS_____OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR0]] {
; IS_____OPM-NEXT: bb:
; IS_____OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_____OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_____OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define
{[^[^@]+]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR0]] {
; IS__TUNIT_NPM-NEXT: bb:

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; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define
{[^[^@]+]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR0]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG]], align 64
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {[^[^@]+]}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {[^[^@]+]}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32

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; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7]]
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{^[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR1]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{^[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR1]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7]]
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;

```



```

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
;
; IS_____OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS_____OPM-LABEL: define
{[^[^@]+]}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS_____OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR1]] {
; IS_____OPM-NEXT: bb:
; IS_____OPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_____OPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_____OPM-NEXT:  ret void
;
; IS_____NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS_____NPM-LABEL: define
{[^[^@]+]}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS_____NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree noundef nonnull readonly align 64
dereferenceable(64) [[ARG1:%.*]]) #[[ATTR1:[0-9]+]] {
; IS_____NPM-NEXT: bb:
; IS_____NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_____NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_____NPM-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
;
; IS__TUNIT__OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT__OPM-LABEL: define {[^[^@]+]}@avx512_legal256_prefer256_call_avx512_legal512_prefer256

```

```

; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR2:[0-9]+]] {
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^\@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR2:[0-9]+]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef
nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^\@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR2:[0-9]+]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2

```

```

; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^\@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR2:[0-9]+]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_NPM-NEXT:  call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef
nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #2 {
;
; IS_____OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS_____OPM-LABEL: define
{{[^\@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS_____OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR2:[0-9]+]] {
; IS_____OPM-NEXT: bb:
; IS_____OPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_____OPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_____OPM-NEXT:  ret void
;
; IS_____NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn

```

```

; IS_____NPM-LABEL: define
{[^[^@]+]}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS_____NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree noundef nonnull readonly align 64
dereferenceable(64) [[ARG1:%.*]]) #[[ATTR2:[0-9]+]] {
; IS_____NPM-NEXT: bb:
; IS_____NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_____NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_____NPM-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {[^[^@]+]}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_OPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__TUNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:  ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {[^[^@]+]}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef
nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]

```

```

; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^\@]+}} @avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR1]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^\@]+}} @avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR1]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef
nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32

```

```

store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
;
; IS_____OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS_____OPM-LABEL: define {{{^@+}}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS_____OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR3:[0-9]+]] {
; IS_____OPM-NEXT: bb:
; IS_____OPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_____OPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_____OPM-NEXT:  ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{{^@+}}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR3:[0-9]+]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{{^@+}}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR3:[0-9]+]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG]], align 64
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
;

```

```

; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{^[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR4:[0-9]+]] {
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64
dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{^[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR4:[0-9]+]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7]]
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{^[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR4:[0-9]+]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64
dereferenceable(64) [[TMP]]) #[[ATTR7]]

```

```

; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define { {[^@]+} } @avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR4:[0-9]+]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7]]
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {
;
; IS_____OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS_____OPM-LABEL: define { {[^@]+} } @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS_____OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR4:[0-9]+]] {
; IS_____OPM-NEXT: bb:
; IS_____OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_____OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS_____OPM-NEXT: ret void
;

```



```

; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^\@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture norecurse noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR4]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^\@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* noalias nocapture norecurse noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR4]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG]], align 64
; IS__CGSCC_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{[^\@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture norecurse writeonly [[ARG:%.*]]) #[[ATTR3]] {
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture norecurse noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture norecurse noundef nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture norecurse noundef nonnull readonly align 64
dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint norecurse nosync nounwind uwtable willreturn

```

```

; IS__TUNIT_NPM-LABEL: define {{[^\@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR3]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__TUNIT_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:  call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7]]
; IS__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^\@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR3]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_OPM-NEXT:  call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree noundef nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64
dereferenceable(64) [[TMP]]) #[[ATTR7]]
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^\@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[ATTR3]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__CGSCC_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT:  call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR7]]

```

```

; IS__CGSCC__NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC__NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC__NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

```

; Function Attrs: argmemonly nounwind

```

```

declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

```

```

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }

```

```

attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }

```

```

attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256" }

```

```

attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }

```

```

attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }

```

```

attributes #5 = { argmemonly nounwind }

```

```

;

```

```

; IS__TUNIT____: attributes #[[ATTR0:[0-9]+]] = { argmemonly inlinehint norecurse nosync nounwind
uwtable willreturn "min-legal-vector-width"="512" "prefer-vector-width"="512" "target-features"="+avx512vl" }

```

```

; IS__TUNIT____: attributes #[[ATTR1:[0-9]+]] = { argmemonly inlinehint norecurse nosync nounwind
uwtable willreturn "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl" }

```

```

; IS__TUNIT____: attributes #[[ATTR2:[0-9]+]] = { argmemonly inlinehint norecurse nosync nounwind
uwtable willreturn "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl" }

```

```

; IS__TUNIT____: attributes #[[ATTR3:[0-9]+]] = { argmemonly inlinehint norecurse nosync nounwind
uwtable willreturn "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx2" }

```

```

; IS__TUNIT____: attributes #[[ATTR4:[0-9]+]] = { argmemonly inlinehint norecurse nosync nounwind
uwtable willreturn "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx2" }

```

```

; IS__TUNIT____: attributes #[[ATTR5:[0-9]+]] = { argmemonly norecurse nounwind willreturn writeonly }

```

```

; IS__TUNIT____: attributes #[[ATTR6:[0-9]+]] = { willreturn writeonly }

```

```

; IS__TUNIT____: attributes #[[ATTR7:[0-9]+]] = { norecurse nosync nounwind willreturn }

```

```

;

```

```

; IS__CGSCC____: attributes #[[ATTR0:[0-9]+]] = { argmemonly inlinehint norecurse nosync nounwind
uwtable willreturn "min-legal-vector-width"="512" "prefer-vector-width"="512" "target-features"="+avx512vl" }

```

```

; IS__CGSCC____: attributes #[[ATTR1:[0-9]+]] = { argmemonly inlinehint norecurse nosync nounwind

```

```

uwtable willreturn "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl" }
; IS_CGSCC___: attributes #[[ATTR2:[0-9]+]] = { argmemonly inlinehint nofree norecurse nosync nounwind
uwtable willreturn "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl" }
; IS_CGSCC___: attributes #[[ATTR3:[0-9]+]] = { argmemonly inlinehint nofree norecurse nosync nounwind
uwtable willreturn "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx2" }
; IS_CGSCC___: attributes #[[ATTR4:[0-9]+]] = { argmemonly inlinehint nofree norecurse nosync nounwind
uwtable willreturn "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx2" }
; IS_CGSCC___: attributes #[[ATTR5:[0-9]+]] = { argmemonly nofree nounwind willreturn writeonly }
; IS_CGSCC___: attributes #[[ATTR6:[0-9]+]] = { willreturn writeonly }
; IS_CGSCC___: attributes #[[ATTR7:[0-9]+]] = { nounwind willreturn }
;

```

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; NOTE: Assertions have been autogenerated by `utils/update_llc_test_checks.py`

; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s

;

; D31946

; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

```
declare fp128 @llvm.fabs.f128(fp128)
```

```
declare fp128 @llvm.copysign.f128(fp128, fp128)
```

```
define fp128 @TestSelect(fp128 %a, fp128 %b) {
```

```
; CHECK-LABEL: TestSelect:
```

```
; CHECK: # %bb.0:
```

```
; CHECK-NEXT: pushq %rbx
```

```
; CHECK-NEXT: .cfi_def_cfa_offset 16
```

```
; CHECK-NEXT: subq $32, %rsp
```

```
; CHECK-NEXT: .cfi_def_cfa_offset 48
```

```
; CHECK-NEXT: .cfi_offset %rbx, -16
```

```
; CHECK-NEXT: movaps %xmm1, {[[-0-9]+]}(%r{[sb]})p # 16-byte Spill
```

```
; CHECK-NEXT: movaps %xmm0, (%rsp) # 16-byte Spill
```

```
; CHECK-NEXT: callq __gttf2@PLT
```

```
; CHECK-NEXT: movl %eax, %ebx
```

```
; CHECK-NEXT: movaps (%rsp), %xmm0 # 16-byte Reload
```

```
; CHECK-NEXT: movaps {[[-0-9]+]}(%r{[sb]})p, %xmm1 # 16-byte Reload
```

```
; CHECK-NEXT: callq __subtf3@PLT
```

```
; CHECK-NEXT: testl %ebx, %ebx
```

```
; CHECK-NEXT: jg .LBB0_2
```

```
; CHECK-NEXT: # %bb.1:
```

```
; CHECK-NEXT: xorps %xmm0, %xmm0
```

```
; CHECK-NEXT: .LBB0_2:
```

```
; CHECK-NEXT: addq $32, %rsp
```

```
; CHECK-NEXT: .cfi_def_cfa_offset 16
```

```
; CHECK-NEXT: popq %rbx
```

```
; CHECK-NEXT: .cfi_def_cfa_offset 8
```

```
; CHECK-NEXT: retq
```

```
%cmp = fcmp ogt fp128 %a, %b
```

```
%sub = fsub fp128 %a, %b
```

```
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
```

```
ret fp128 %res
```

```
}
```

```
define fp128 @TestFabs(fp128 %a) {
```

```
; CHECK-LABEL: TestFabs:
```

```
; CHECK: # %bb.0:
```

```
; CHECK-NEXT: andps {[\.?LCPI[0-9]+_[0-9]+]}(%rip), %xmm0
```

```
; CHECK-NEXT: retq
```

```
%res = call fp128 @llvm.fabs.f128(fp128 %a)
```

```
ret fp128 %res
```

```
}
```

```
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
```

```
; CHECK-LABEL: TestCopysign:
```

```

; CHECK:    # %bb.0:
; CHECK-NEXT:  andps { {\.?LCPI[0-9]+_[0-9]+} }(%rip), %xmm1
; CHECK-NEXT:  andps { {\.?LCPI[0-9]+_[0-9]+} }(%rip), %xmm0
; CHECK-NEXT:  orps %xmm1, %xmm0
; CHECK-NEXT:  retq
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
}

```

```

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK:    # %bb.0:
; CHECK-NEXT:  pushq %rax
; CHECK-NEXT:  .cfi_def_cfa_offset 16
; CHECK-NEXT:  movaps %xmm0, %xmm1
; CHECK-NEXT:  callq __multf3@PLT
; CHECK-NEXT:  xorps { {\.?LCPI[0-9]+_[0-9]+} }(%rip), %xmm0
; CHECK-NEXT:  popq %rax
; CHECK-NEXT:  .cfi_def_cfa_offset 8
; CHECK-NEXT:  retq
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
}

```

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SOFTWARE.

; RUN: llc -march=hexagon < %s

; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }

%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {

entry:

br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry

br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph

%lshr.iv = phi %struct.0* [%cgep22, %exit.2], [undef, %while.body.lr.ph]

switch i32 undef, label %exit [

i32 1, label %sw.bb.i

i32 2, label %sw.bb3.i

]

sw.bb.i: ; preds = %while.body

unreachable

sw.bb3.i: ; preds = %while.body

unreachable

exit: ; preds = %while.body

switch i32 undef, label %exit.2 [

i32 1, label %sw.bb.i17

i32 2, label %sw.bb3.i20

]

sw.bb.i17: ; preds = %exit

%0 = bitcast %struct.0* %lshr.iv to i32*

%1 = load i32, i32* %0, align 4

unreachable

sw.bb3.i20: ; preds = %exit

%2 = bitcast %struct.0* %lshr.iv to i8**

%3 = load i8*, i8** %2, align 4

unreachable

```
exit.2:                                ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body
```

```
while.end:                              ; preds = %entry
ret void
}
```

```
attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
```

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```
; RUN: opt %s -inline -S | FileCheck %s
```

```
define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}
```

```
define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}
```

```
define internal void @innerNoAttribute() {
  ret void
}
```

; We should not add an attribute during inlining. No attribute means unknown.

; Inlining doesn't change the fact that we don't know anything about this

```

; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

```

```

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.

```

```

define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

```

```

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

```

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```
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
target triple = "thumbv6m-none--musleabi"
```

```
; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
```

```

; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

```

```
@goo = global i8* undef
```

```

define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

```

```
; Check that for i16 type, the maximum legal offset is 62.
```

```

; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

```

```

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

```

```

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4

```

```
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4
```

```
define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}
```

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```
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
```

```
; RUN: opt -S -argpromotion < %s | FileCheck %s
```

```
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
```

```
; Test that we only promote arguments when the caller/callee have compatible
```

```
; function attributes.
```

```
target triple = "x86_64-unknown-linux-gnu"
```

```
; This should promote
```

```
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
```

```
; CHECK-LABEL: define {{{^@+}}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
```

```
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
```

```
; CHECK-NEXT: bb:
```

```
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
```

```
; CHECK-NEXT: ret void
```

```
;
```

```
bb:
```

```
%tmp = load <8 x i64>, <8 x i64>* %arg1
```

```
store <8 x i64> %tmp, <8 x i64>* %arg
```

```
ret void
```

```
}
```

```
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
```

```
; CHECK-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
```

```
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
```

```
; CHECK-NEXT: bb:
```

```
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
```

```
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
```

```
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
```

```
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
```

```
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
```

```

; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

; This should promote

```

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{{^@+}}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{{^@+}}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;

```



```

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{{^@+}}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{{^@+}}} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x

```

```

i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {[^@]+}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {[^@]+}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

```

```

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{{^@}+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{{^@}+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

```

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {{{^@}+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:

```

```

; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{{^@+}}} @avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x
i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
; CHECK-LABEL: define {{{^@+}}} @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg

```

```

ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
; CHECK-LABEL: define {{{^@}+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {
; CHECK-LABEL: define {{{^@}+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {{{^@}+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])

```

```

; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

```

```

;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

; If the arguments are scalar, its ok to promote.

```

define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32*
%Y) #2 {
; CHECK-LABEL: define
{[^[^@]+]}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT: ret i32 [[C]]
;
%A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C
}

```

```

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {[^[^@]+]}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT: [[A:%.*]] = alloca i32
; CHECK-NEXT: store i32 1, i32* [[A]]
; CHECK-NEXT: [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT: [[C:%.*]] = call i32
@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])

```

```

; CHECK-NEXT:  ret i32 [[C]]
;
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
ret i32 %C
}

```

; If the arguments are scalar, its ok to promote.

```

define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32*
%Y) #2 {
; CHECK-LABEL: define
{[^[^@]+]}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT:  [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:  ret i32 [[C]]
;
%A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C
}

```

```

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {[^[^@]+]}@scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT:  [[A:%.*]] = alloca i32
; CHECK-NEXT:  store i32 1, i32* [[A]]
; CHECK-NEXT:  [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT:  [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT:  [[C:%.*]] = call i32
@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:  ret i32 [[C]]
;
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %A, i32* %B)
ret i32 %C
}

```

; Function Attrs: argmemonly nounwind

```

declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

```

```

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }

```

```

attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }

```

```

attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-

```

```
width="256" prefer-vector-width="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features="+avx2" "min-legal-vector-width="512"
"prefer-vector-width="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features="+avx2" "min-legal-vector-width="256"
"prefer-vector-width="256" }
attributes #5 = { argmemonly nounwind }
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```

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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --include-generated-funcs

; RUN: opt -S -verify -iroutliner -ir-outlining-no-cost < %s | FileCheck %s

; This test checks that debug info is recognized as able to be extracted along with the other instructions, but is not included in the consolidated function.

```
define void @function1() !dbg !6 {
entry:
  %a = alloca i32, align 4, !dbg !17
  call void @llvm.dbg.value(metadata i32* %a, metadata !9, metadata !DIExpression()), !dbg !17
  %b = alloca i32, align 4, !dbg !18
  call void @llvm.dbg.value(metadata i32* %b, metadata !11, metadata !DIExpression()), !dbg !18
  %c = alloca i32, align 4, !dbg !19
  call void @llvm.dbg.value(metadata i32* %c, metadata !12, metadata !DIExpression()), !dbg !19
  store i32 2, i32* %a, align 4, !dbg !20
  store i32 3, i32* %b, align 4, !dbg !21
  store i32 4, i32* %c, align 4, !dbg !22
  %al = load i32, i32* %a, align 4, !dbg !23
  call void @llvm.dbg.value(metadata i32 %al, metadata !13, metadata !DIExpression()), !dbg !23
  %bl = load i32, i32* %b, align 4, !dbg !24
  call void @llvm.dbg.value(metadata i32 %bl, metadata !15, metadata !DIExpression()), !dbg !24
```

```

%c1 = load i32, i32* %c, align 4, !dbg !25
call void @llvm.dbg.value(metadata i32 %c1, metadata !16, metadata !DIExpression()), !dbg !25
ret void, !dbg !26
}

```

```

define void @function2() !dbg !27 {
entry:
  %a = alloca i32, align 4, !dbg !35
  call void @llvm.dbg.value(metadata i32* %a, metadata !29, metadata !DIExpression()), !dbg !35
  %b = alloca i32, align 4, !dbg !36
  call void @llvm.dbg.value(metadata i32* %b, metadata !30, metadata !DIExpression()), !dbg !36
  %c = alloca i32, align 4, !dbg !37
  call void @llvm.dbg.value(metadata i32* %c, metadata !31, metadata !DIExpression()), !dbg !37
  store i32 2, i32* %a, align 4, !dbg !38
  store i32 3, i32* %b, align 4, !dbg !39
  store i32 4, i32* %c, align 4, !dbg !40
  %a1 = load i32, i32* %a, align 4, !dbg !41
  call void @llvm.dbg.value(metadata i32 %a1, metadata !32, metadata !DIExpression()), !dbg !41
  %b1 = load i32, i32* %b, align 4, !dbg !42
  call void @llvm.dbg.value(metadata i32 %b1, metadata !33, metadata !DIExpression()), !dbg !42
  %c1 = load i32, i32* %c, align 4, !dbg !43
  call void @llvm.dbg.value(metadata i32 %c1, metadata !34, metadata !DIExpression()), !dbg !43
  ret void, !dbg !44
}

```

```

; Function Attrs: nounwind readnone speculatable willreturn
declare void @llvm.dbg.value(metadata, metadata, metadata) #0

```

```

attributes #0 = { nounwind readnone speculatable willreturn }

```

```

!llvm.dbg.cu = !{!0}
!llvm.debugify = !{!3, !4}
!llvm.module.flags = !{!5}

```

```

!0 = distinct !DICompileUnit(language: DW_LANG_C, file: !1, producer: "debugify", isOptimized: true,
runtimeVersion: 0, emissionKind: FullDebug, enums: !2)
!1 = !DIFile(filename: "legal-debug.ll", directory: "")
!2 = !{}
!3 = !{i32 20}
!4 = !{i32 12}
!5 = !{i32 2, !"Debug Info Version", i32 3}
!6 = distinct !DISubprogram(name: "function1", linkageName: "function1", scope: null, file: !1, line: 1, type: !7,
scopeLine: 1, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0, retainedNodes: !8)
!7 = !DISubroutineType(types: !2)
!8 = !{!9, !11, !12, !13, !15, !16}
!9 = !DILocalVariable(name: "1", scope: !6, file: !1, line: 1, type: !10)
!10 = !DIBasicType(name: "ty64", size: 64, encoding: DW_ATE_unsigned)

```

```

!11 = !DILocalVariable(name: "2", scope: !6, file: !1, line: 2, type: !10)
!12 = !DILocalVariable(name: "3", scope: !6, file: !1, line: 3, type: !10)
!13 = !DILocalVariable(name: "4", scope: !6, file: !1, line: 7, type: !14)
!14 = !DIBasicType(name: "ty32", size: 32, encoding: DW_ATE_unsigned)
!15 = !DILocalVariable(name: "5", scope: !6, file: !1, line: 8, type: !14)
!16 = !DILocalVariable(name: "6", scope: !6, file: !1, line: 9, type: !14)
!17 = !DILocation(line: 1, column: 1, scope: !6)
!18 = !DILocation(line: 2, column: 1, scope: !6)
!19 = !DILocation(line: 3, column: 1, scope: !6)
!20 = !DILocation(line: 4, column: 1, scope: !6)
!21 = !DILocation(line: 5, column: 1, scope: !6)
!22 = !DILocation(line: 6, column: 1, scope: !6)
!23 = !DILocation(line: 7, column: 1, scope: !6)
!24 = !DILocation(line: 8, column: 1, scope: !6)
!25 = !DILocation(line: 9, column: 1, scope: !6)
!26 = !DILocation(line: 10, column: 1, scope: !6)
!27 = distinct !DISubprogram(name: "function2", linkageName: "function2", scope: null, file: !1, line: 11, type: !7,
scopeLine: 11, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0, retainedNodes: !28)
!28 = !{!29, !30, !31, !32, !33, !34}
!29 = !DILocalVariable(name: "7", scope: !27, file: !1, line: 11, type: !10)
!30 = !DILocalVariable(name: "8", scope: !27, file: !1, line: 12, type: !10)
!31 = !DILocalVariable(name: "9", scope: !27, file: !1, line: 13, type: !10)
!32 = !DILocalVariable(name: "10", scope: !27, file: !1, line: 17, type: !14)
!33 = !DILocalVariable(name: "11", scope: !27, file: !1, line: 18, type: !14)
!34 = !DILocalVariable(name: "12", scope: !27, file: !1, line: 19, type: !14)
!35 = !DILocation(line: 11, column: 1, scope: !27)
!36 = !DILocation(line: 12, column: 1, scope: !27)
!37 = !DILocation(line: 13, column: 1, scope: !27)
!38 = !DILocation(line: 14, column: 1, scope: !27)
!39 = !DILocation(line: 15, column: 1, scope: !27)
!40 = !DILocation(line: 16, column: 1, scope: !27)
!41 = !DILocation(line: 17, column: 1, scope: !27)
!42 = !DILocation(line: 18, column: 1, scope: !27)
!43 = !DILocation(line: 19, column: 1, scope: !27)
!44 = !DILocation(line: 20, column: 1, scope: !27)
; CHECK-LABEL: @function1(
; CHECK-NEXT: entry:
; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4, !dbg [[DBG17:![0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[A]], metadata [[META9:![0-9]+]], metadata
!DIExpression()), !dbg [[DBG17]]
; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4, !dbg [[DBG18:![0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[B]], metadata [[META11:![0-9]+]], metadata
!DIExpression()), !dbg [[DBG18]]
; CHECK-NEXT: [[C:%.*]] = alloca i32, align 4, !dbg [[DBG19:![0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[C]], metadata [[META12:![0-9]+]], metadata
!DIExpression()), !dbg [[DBG19]]
; CHECK-NEXT: call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]]), !dbg [[DBG20:![0-9]+]]
; CHECK-NEXT: ret void, !dbg [[DBG21:![0-9]+]]

```

```

;
;
; CHECK-LABEL: @function2(
; CHECK-NEXT: entry:
; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4, !dbg [[DBG30:[0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[A]], metadata [[META24:[0-9]+]], metadata
!DIExpression()), !dbg [[DBG30]]
; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4, !dbg [[DBG31:[0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[B]], metadata [[META25:[0-9]+]], metadata
!DIExpression()), !dbg [[DBG31]]
; CHECK-NEXT: [[C:%.*]] = alloca i32, align 4, !dbg [[DBG32:[0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[C]], metadata [[META26:[0-9]+]], metadata
!DIExpression()), !dbg [[DBG32]]
; CHECK-NEXT: call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]], !dbg [[DBG33:[0-9]+]]
; CHECK-NEXT: ret void, !dbg [[DBG34:[0-9]+]]
;
;
; CHECK: @outlined_ir_func_0(i32* [[TMP0:%.*]], i32* [[TMP1:%.*]], i32* [[TMP2:%.*]])
; CHECK: entry_to_outline:
; CHECK-NEXT: store i32 2, i32* [[TMP0]], align 4
; CHECK-NEXT: store i32 3, i32* [[TMP1]], align 4
; CHECK-NEXT: store i32 4, i32* [[TMP2]], align 4
; CHECK-NEXT: [[AL:%.*]] = load i32, i32* [[TMP0]], align 4
; CHECK-NEXT: [[BL:%.*]] = load i32, i32* [[TMP1]], align 4
; CHECK-NEXT: [[CL:%.*]] = load i32, i32* [[TMP2]], align 4
; CHECK-NEXT: br label [[ENTRY_AFTER_OUTLINE_EXITSTUB:%.*]]
;
; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

```

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is

; unknown.

; Verify that no gross errors happen.

```
; CHECK-LABEL: @f20
```

```
; COMMON: cfdtsiz
```

```
define i32 @f20(double %a) strictfp {
```

```
entry:
```

```

%result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
                        metadata !"fpexcept.strict")
                        strictfp

```

```
ret i32 %result
```

```
}
```

```
@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
```

```
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)
```

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```
add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp
```

```
LINK_LIBS
  lldbCore
  lldbHost
  lldbSymbol
LINK_COMPONENTS
  Support
)
```

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```
; RUN: llc -march=hexagon -hexagon-hvx-widen=32 < %s | FileCheck %s
```

```
; Truncating a type-to-be-widened to a legal type (v8i8).
```

```
; Check that this compiles successfully.
```

```
; CHECK-LABEL: f0:
```

```
; CHECK: dealloc_return
```

```
target datalayout = "e-m:e-p:32:32:32-a:0-n16:32-i64:64:64-i32:32:32-i16:16:16-i1:8:8-f32:32:32-f64:64:64-v32:32:32-v64:64:64-v512:512:512-v1024:1024:1024-v2048:2048:2048"
```

```
target triple = "hexagon"
```

```
define dlllexport void @f0(i8* %a0) local_unnamed_addr #0 {
```

```
b0:
```

```

%v0 = load i8, i8* undef, align 1
%v1 = zext i8 %v0 to i16
%v2 = add i16 0, %v1
%v3 = icmp sgt i16 %v2, 1
%v4 = select i1 %v3, i16 %v2, i16 1
%v5 = udiv i16 -32768, %v4
%v6 = zext i16 %v5 to i32
%v7 = insertelement <8 x i32> undef, i32 %v6, i32 0
%v8 = shufflevector <8 x i32> %v7, <8 x i32> undef, <8 x i32> zeroinitializer
%v9 = load <8 x i16>, <8 x i16>* undef, align 2
%v10 = sext <8 x i16> %v9 to <8 x i32>
%v11 = mul nsw <8 x i32> %v8, %v10
%v12 = add nsw <8 x i32> %v11, <i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384>
%v13 = lshr <8 x i32> %v12, <i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15>
%v14 = trunc <8 x i32> %v13 to <8 x i8>
%v15 = getelementptr inbounds i8, i8* %a0, i32 undef
%v16 = bitcast i8* %v15 to <8 x i8>*
store <8 x i8> %v14, <8 x i8>* %v16, align 1
ret void
}

```

```
attributes #0 = { "target-features"="+hvx,+hvx-length128b" }
```

```
; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
```

```
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=VEC256,AVX
```

```
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,AVX512VL256
```

```
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=AVX512VL512
```

```
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,SKX256
```

```
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=SKX512
```

```
define void @zext256() "min-legal-vector-width"="256" {
```

```
; AVX-LABEL: 'zext256'
```

```
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = zext <8 x i16> undef to <8 x i64>
```

```
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %B = zext <8 x i32> undef to <8 x i64>
```

```
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
```

```
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
```

```
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %E = zext <32 x i8> undef to <32 x i16>
```

```
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
```

```
;
```

```
; AVX512VL256-LABEL: 'zext256'
```

```
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = zext <8 x i16> undef to <8 x i64>
```

```

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

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;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'zext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>

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; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; AVX-LABEL: 'sext256'
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'sext256'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to
<8 x i64>

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; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x

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i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512("min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'sext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>

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; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @trunc256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'trunc256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x
i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %B = trunc <8 x i64> undef to <8 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %C = trunc <8 x i64> undef to <8 x

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i8>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = trunc <16 x i32> undef to <16 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = trunc <16 x i32> undef to <16 x
i8>
; VEC256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x
i8>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'trunc256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to
<8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to
<8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef
to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to
<16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to
<32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%E = trunc <16 x i32> undef to <16 x i8>
%F = trunc <32 x i16> undef to <32 x i8>
ret void
}

```

```

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = zext <16 x i1> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'zext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef
to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef
to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef
to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef
to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef
to <4 x i32>

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; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

;

; AVX512VL512-LABEL: 'zext256_vXi1'

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef

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to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1>
undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1>
undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to
<2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to
<4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef
to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef
to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1>
undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to
<16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to
<16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to
<32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x
i8>

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; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

```

;
%V2i64 = zext <2 x i1> undef to <2 x i64>
%V4i64 = zext <4 x i1> undef to <4 x i64>
%V8i64 = zext <8 x i1> undef to <8 x i64>

%V2i32 = zext <2 x i1> undef to <2 x i32>
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
%V16i32 = zext <16 x i1> undef to <16 x i32>

%V2i16 = zext <2 x i1> undef to <2 x i16>
%V4i16 = zext <4 x i1> undef to <4 x i16>
%V8i16 = zext <8 x i1> undef to <8 x i16>
%V16i16 = zext <16 x i1> undef to <16 x i16>
%V32i16 = zext <32 x i1> undef to <32 x i16>

%V2i8 = zext <2 x i1> undef to <2 x i8>
%V4i8 = zext <4 x i1> undef to <4 x i8>
%V8i8 = zext <8 x i1> undef to <8 x i8>
%V16i8 = zext <16 x i1> undef to <16 x i8>
%V32i8 = zext <32 x i1> undef to <32 x i8>
%V64i8 = zext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'sext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x

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i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef
to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef
to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef
to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef
to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef
to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef
to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1>
undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef
to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef
to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef
to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1>
undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1>
undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8

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; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

;

; AVX512VL512-LABEL: 'sext256_vXi1'

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to

```

<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef
to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef
to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1>
undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to
<16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to
<16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to
<32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x
i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16
x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32
x i8>

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; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'sext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%I64 = sext i1 undef to i64

%V2i64 = sext <2 x i1> undef to <2 x i64>

%V4i64 = sext <4 x i1> undef to <4 x i64>

%V8i64 = sext <8 x i1> undef to <8 x i64>

%I32 = sext i1 undef to i32

%V2i32 = sext <2 x i1> undef to <2 x i32>

%V4i32 = sext <4 x i1> undef to <4 x i32>

%V8i32 = sext <8 x i1> undef to <8 x i32>

%V16i32 = sext <16 x i1> undef to <16 x i32>

%I16 = sext i1 undef to i16

%V2i16 = sext <2 x i1> undef to <2 x i16>

%V4i16 = sext <4 x i1> undef to <4 x i16>

%V8i16 = sext <8 x i1> undef to <8 x i16>

%V16i16 = sext <16 x i1> undef to <16 x i16>

%V32i16 = sext <32 x i1> undef to <32 x i16>

%I8 = sext i1 undef to i8

%V2i8 = sext <2 x i1> undef to <2 x i8>

%V4i8 = sext <4 x i1> undef to <4 x i8>

%V8i8 = sext <8 x i1> undef to <8 x i8>

%V16i8 = sext <16 x i1> undef to <16 x i8>

%V32i8 = sext <32 x i1> undef to <32 x i8>

%V64i8 = sext <64 x i1> undef to <64 x i8>

ret i32 undef

}

define i32 @trunc_vXi1() "min-legal-vector-width"="256" {

; AVX-LABEL: 'trunc_vXi1'

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

;

; AVX512VL256-LABEL: 'trunc_vXi1'

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>

```

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V32i32 = trunc <32 x i32>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V64i32 = trunc <64 x i32>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16>
undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16>
undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>
undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef
to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef
to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef
to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i8 = trunc <32 x i8>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i8 = trunc <64 x i8>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'trunc_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64>
undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64>
undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64>
undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64>
undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32>
undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32>

```

```

undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>
undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32>
undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16>
undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16>
undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>
undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = trunc <32 x i16>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 14 for instruction: %V64i16 = trunc <64 x i16>
undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef
to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef
to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef
to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8>
undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to
<64 x i1>

```

```

; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i32 = trunc <64 x i32> undef to
<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8
x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i16 = trunc <64 x i16> undef to
<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x
i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x
i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x
i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to
<16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to
<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = trunc <64 x i8> undef to
<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to

```



```

<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8
x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i16 = trunc <64 x i16> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x
i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x
i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x
i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to
<32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64> undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>

```

```
%V2i32 = trunc <2 x i32> undef to <2 x i1>
%V4i32 = trunc <4 x i32> undef to <4 x i1>
%V8i32 = trunc <8 x i32> undef to <8 x i1>
%V16i32 = trunc <16 x i32> undef to <16 x i1>
%V32i32 = trunc <32 x i32> undef to <32 x i1>
%V64i32 = trunc <64 x i32> undef to <64 x i1>
```

```
%V2i16 = trunc <2 x i16> undef to <2 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
%V16i16 = trunc <16 x i16> undef to <16 x i1>
%V32i16 = trunc <32 x i16> undef to <32 x i1>
%V64i16 = trunc <64 x i16> undef to <64 x i1>
```

```
%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>
```

```
ret i32 undef
}
```

```
# People who have agreed to one of the CLAs and can contribute patches.
```

```
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
```

```
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
```

```
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
```

```
# The agreement for individuals can be filled out on the web.
#
```

```
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.
#
```

```
# Names should be added to this file as:
```

```
# Name <email address>
```

```
#
```

```
# Please keep the list sorted.
```

```
Albert Pretorius <pretoalb@gmail.com>
```

Arne Beer <arne@twobeer.de>
Billy Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
Christopher Seymour <chris.j.seymour@hotmail.com>
David Coeurjolly <david.coeurjolly@liris.cnrs.fr>
Deniz Evrenci <denizevrenci@gmail.com>
Dominic Hamon <dma@stripysock.com> <dominic@google.com>
Dominik Czarnota <dominik.b.czarnota@gmail.com>
Eric Fiselier <eric@efcs.ca>
Eugene Zhuk <eugene.zhuk@gmail.com>
Evgeny Safronov <division494@gmail.com>
Felix Homann <linuxaudio@showlabor.de>
Ismael Jimenez Martinez <ismael.jimenez.martinez@gmail.com>
Jern-Kuan Leong <jernkuan@gmail.com>
JianXiong Zhou <zhoujianxiong2@gmail.com>
Joao Paulo Magalhaes <joaoppmagalhaes@gmail.com>
John Millikin <jmillikin@stripe.com>
Jussi Knuutila <jussi.knuutila@gmail.com>
Kai Wolf <kai.wolf@gmail.com>
Kishan Kumar <kumar.kishan@outlook.com>
Kaito Udagawa <umireon@gmail.com>
Lei Xu <eddyxu@gmail.com>
Matt Clarkson <mattyclarkson@gmail.com>
Maxim Vafin <maxvafin@gmail.com>
Nick Hutchinson <nshutchinson@gmail.com>
Oleksandr Sochka <sasha.sochka@gmail.com>
Pascal Leroy <phl@google.com>
Paul Redmond <paul.redmond@gmail.com>
Pierre Phaneuf <pphaneuf@google.com>
Radoslav Yovchev <radoslav.tm@gmail.com>
Raul Marin <rmrodriguez@cartodb.com>
Ray Glover <ray.glover@uk.ibm.com>
Robert Guo <robert.guo@mongodb.com>
Roman Lebedev <lebedev.ri@gmail.com>
Shuo Chen <chenshuo@chenshuo.com>
Steven Wan <wan.yu@ibm.com>
Tobias Ulvgrd <tobias.ulvgard@dirac.se>
Tom Madams <tom.ej.madams@gmail.com> <tmadams@google.com>
Yixuan Qiu <yixuanq@gmail.com>
Yusuke Suzuki <utatane.tea@gmail.com>
Zbigniew Skowron <zbychs@gmail.com>
Min-Yih Hsu <yihshyng223@gmail.com>
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

```
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {  
; CHECK-LABEL: test_sitofp_fixed:  
; CHECK:      ; %bb.0:
```

```

; CHECK-NEXT:  sshll2.2d v4, v2, #0
; CHECK-NEXT:  sshll.2d v16, v1, #0
; CHECK-NEXT:  sshll2.2d v5, v0, #0
; CHECK-NEXT:  sshll2.2d v6, v1, #0
; CHECK-NEXT:  sshll2.2d v7, v3, #0
; CHECK-NEXT:  sshll.2d v0, v0, #0
; CHECK-NEXT:  sshll.2d v17, v2, #0
; CHECK-NEXT:  sshll.2d v18, v3, #0
; CHECK-NEXT:  scvtf.2d v1, v5, #6
; CHECK-NEXT:  scvtf.2d v3, v6, #6
; CHECK-NEXT:  scvtf.2d v2, v16, #6
; CHECK-NEXT:  scvtf.2d v5, v4, #6
; CHECK-NEXT:  scvtf.2d v0, v0, #6
; CHECK-NEXT:  scvtf.2d v7, v7, #6
; CHECK-NEXT:  scvtf.2d v4, v17, #6
; CHECK-NEXT:  scvtf.2d v6, v18, #6
; CHECK-NEXT:  ret

```

```

%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
ret <16 x double> %res
}

```

; This one is small enough to satisfy isSimple, but still illegally large.

```

define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK:      ; %bb.0:
; CHECK-NEXT:  scvtf.2d v0, v0, #6
; CHECK-NEXT:  scvtf.2d v1, v1, #6
; CHECK-NEXT:  ret

```

```

%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

```

LLVM System Interface Library

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```
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s
--check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi |
FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for
vpmaddwd+vpadd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-
prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI
```

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```
define dso_local void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-
width"="256" {
```

```

; CHECK-LABEL: add256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

```

```

define dso_local void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {

```

```

; CHECK-LABEL: add512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpadd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

```

```

define dso_local void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {

```

```

; CHECK-LABEL: avg_v64i8_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>

```



```

; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define dso_local void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-
legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define dso_local void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-
vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1

```

```

; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define dso_local void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-
vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define dso_local i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-
vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm5

```

```

; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT: vpadd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpadd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpadd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsltd { {.*#+} } xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsltd { {.*#+} } xmm1 = xmm0[1,1,1,1]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

```

vector.body:

```

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1

```

```

%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

```

define dso_local i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-
vector-width"="512" {

```

```

; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:    # %bb.0: # %entry
; CHECK-NEXT:    movl %edx, %eax
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    xorl %ecx, %ecx
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT: .LBB9_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:    addq $32, %rcx
; CHECK-NEXT:    cmpq %rcx, %rax
; CHECK-NEXT:    jne .LBB9_1
; CHECK-NEXT:    # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0

```

```

; CHECK-NEXT: vpsshufd { {. * # + } } xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsshufd { {. * # + } } xmm1 = xmm0[1,1,1,1]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

```

entry:

```

%3 = zext i32 %2 to i64
br label %vector.body

```

vector.body:

```

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>

```

```

%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

```
@a = dso_local global [1024 x i8] zeroinitializer, align 16
```

```
@b = dso_local global [1024 x i8] zeroinitializer, align 16
```

```
define dso_local i32 @sad_16i8_256() "min-legal-vector-width"="256" {
```

```
; CHECK-LABEL: sad_16i8_256:
```

```
; CHECK: # %bb.0: # %entry
```

```
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
```

```
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
```

```
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
```

```
; CHECK-NEXT: .p2align 4, 0x90
```

```
; CHECK-NEXT: .LBB10_1: # %vector.body
```

```
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
```

```
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
```

```
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
```

```
; CHECK-NEXT: vpadd %ymm1, %ymm2, %ymm1
```

```
; CHECK-NEXT: addq $4, %rax
```

```
; CHECK-NEXT: jne .LBB10_1
```

```
; CHECK-NEXT: # %bb.2: # %middle.block
```

```
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
```

```
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
```

```
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
```

```
; CHECK-NEXT: vpslufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
```

```
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
```

```
; CHECK-NEXT: vpslufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
```

```
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
```

```
; CHECK-NEXT: vmovd %xmm0, %eax
```

```
; CHECK-NEXT: vzeroupper
```

```
; CHECK-NEXT: retq
```

```
entry:
```

```
br label %vector.body
```

```
vector.body:
```

```
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
```

```
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
```

```
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
```

```
%1 = bitcast i8* %0 to <16 x i8>*
```

```
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
```

```
%2 = zext <16 x i8> %wide.load to <16 x i32>
```

```

%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

```

```

define dso_local i32 @sad_16i8_512() "min-legal-vector-width"="512" {

```

```

; CHECK-LABEL: sad_16i8_512:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block

```

```

; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpaddq %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddq %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {.*#+} xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT: vpaddq %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {.*#+} xmm1 = xmm0[1,1,1,1]
; CHECK-NEXT: vpaddq %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32

```



```

undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

```

```

define dso_local void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvt dq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvt dq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define dso_local void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvt dq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define dso_local void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvt dq2pd %xmm0, %ymm1

```

```

; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

```

```

define dso_local void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

```

```

define dso_local void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)

```

```

; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define dso_local void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvt dq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define dso_local void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvt dq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvt dq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvt dq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvt dq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>

```

```

store <16 x double> %1, <16 x double>* %res
ret void
}

define dso_local void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1

```

```

; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define dso_local void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: mul256:
; CHECK-AVX512: # %bb.0:
; CHECK-AVX512-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT: vpunpckhbw {.*#+} %ymm4 =

```

```

ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT:  vmovdqa {{.*#+}} ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm3 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm2 =
ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpmullw %ymm3, %ymm1, %ymm1

```

```

; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm3 =
[0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,48,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT: vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm2 =
ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT: vpermt2b %ymm4, %ymm3, %ymm0
; CHECK-VBMI-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-VBMI-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

```

```

define dso_local void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-AVX512-LABEL: mul512:
; CHECK-AVX512: # %bb.0:
; CHECK-AVX512-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT: vmovdqa64 {{.*#+}} zmm3 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,2
55,255,255,255,255]
; CHECK-AVX512-NEXT: vpandq %zmm3, %zmm2, %zmm2
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT: vpmullw %zmm1, %zmm0, %zmm0

```

```

; CHECK-AVX512-NEXT:  vpandq %zmm3, %zmm0, %zmm0
; CHECK-AVX512-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL: mul512:
; CHECK-VBMI:        # %bb.0:
; CHECK-VBMI-NEXT:   vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT:   vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT:   vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:   vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:   vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:   vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:   vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:   vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:   vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,16,18,20,22,24,26,28,30,80,82,84,86,88,90,92,94,32,34,36,38,40,42,44,
46,96,98,100,102,104,106,108,110,48,50,52,54,56,58,60,62,112,114,116,118,120,122,124,126]
; CHECK-VBMI-NEXT:   vpermi2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT:   vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:   vzeroupper
; CHECK-VBMI-NEXT:   retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

```

; This threw an assertion at one point.

```

define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-
width"="256" {

```

```

; CHECK-LABEL: mload_v4i32:

```

```

; CHECK:        # %bb.0:

```

```

; CHECK-NEXT:   vptestnmd %xmm0, %xmm0, %k1

```

```

; CHECK-NEXT:   vpbblendmd (%rdi), %xmm1, %xmm0 {%k1}

```

```

; CHECK-NEXT:   retq

```

```

%mask = icmp eq <4 x i32> %trigger, zeroinitializer

```

```

%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32>

```



```

%dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i32:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT: vpmovqd %ymm0, %xmm0
; CHECK-NEXT: vpmovqd %ymm1, %xmm1
; CHECK-NEXT: vinserti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT: vpmovqd %ymm2, %xmm1
; CHECK-NEXT: vpmovqd %ymm3, %xmm2
; CHECK-NEXT: vinserti128 $1, %xmm2, %ymm1, %ymm1
; CHECK-NEXT: retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i32>
ret <16 x i32> %b
}

define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i8:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT: vpmovqb %ymm3, %xmm3
; CHECK-NEXT: vpmovqb %ymm2, %xmm2
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm2[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i8>
ret <16 x i8> %b
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i8:
; CHECK:      # %bb.0:

```

```

; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpmovdb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = trunc <16 x i32> %a to <16 x i8>
ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqw %ymm1, %xmm1
; CHECK-NEXT: vpmovqw %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK: # %bb.0:
; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm0
; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm1
; CHECK-NEXT: vpackusdw %ymm0, %ymm1, %ymm0

```



```

define dso_local void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-
width"="256" {
; CHECK-LABEL: zext_v16i8_v16i64:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm1 =
xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zer
o,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xm
m0[15],zero
; CHECK-NEXT:  vpshufd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT:  vpmovxwq {{.*#+}} ymm2 =
xmm2[0],zero,zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT:  vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:  vpshufd {{.*#+}} xmm3 = xmm1[2,3,2,3]
; CHECK-NEXT:  vpmovxwq {{.*#+}} ymm3 =
xmm3[0],zero,zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT:  vpmovxwq {{.*#+}} ymm1 =
xmm1[0],zero,zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
; CHECK-NEXT:  vpmovxbq {{.*#+}} ymm0 =
xmm0[0],zero,zero,zero,zero,zero,zero,zero,xmm0[1],zero,zero,zero,zero,zero,zero,xmm0[2],zero,zero,zero,zer
o,zero,zero,zero,xmm0[3],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:  vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:  vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:  vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:  vmovdqa %ymm2, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}

```

```

define dso_local void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-
width"="256" {
; CHECK-LABEL: sext_v16i8_v16i64:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovsxbw %xmm0, %ymm1
; CHECK-NEXT:  vpshufd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT:  vpmovsxwq %xmm2, %ymm2
; CHECK-NEXT:  vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:  vpshufd {{.*#+}} xmm3 = xmm1[2,3,2,3]
; CHECK-NEXT:  vpmovsxwq %xmm3, %ymm3
; CHECK-NEXT:  vpmovsxwq %xmm1, %ymm1
; CHECK-NEXT:  vpmovsxbq %xmm0, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:  vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:  vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:  vmovdqa %ymm2, 32(%rdi)

```

```

; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = sext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}

define dso_local void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8
x i64>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i16_setcc:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqw %xmm1, %xmm0, %k1
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i16> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}

define dso_local void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8
x i64>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i32_setcc:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i32> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r

```

```

ret void
}

define dso_local void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q,
<16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i8> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

```

```

define dso_local void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>*
%q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

```

```

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {

```

```

; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
ret <16 x i8> %f
}

```

```

define dso_local void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {

```

```

; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, (%rsi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
store <16 x i8> %f, <16 x i8>* %q
ret void
}

```

```

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {

```

```

; CHECK-LABEL: v64i1_argument_return:
; CHECK:      # %bb.0:
; CHECK-NEXT: retq
ret <64 x i1> %x
}

```



```

define dso_local void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT: kshiftrd $1, %k0, %k1
; CHECK-NEXT: movq $-3, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftlq $63, %k0, %k2
; CHECK-NEXT: kshiftrq $62, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-5, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $3, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $61, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-9, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $2, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $60, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-17, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $5, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $59, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-33, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $4, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $58, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-65, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $7, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $57, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1

```

```

; CHECK-NEXT:  movq $-129, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $6, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $56, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $9, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $55, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-513, %rax # imm = 0xFDFE
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $8, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $54, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $11, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $53, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $10, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $52, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $13, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $51, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $12, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $50, %k2, %k2

```

```

; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $15, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $49, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-32769, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $14, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $48, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-65537, %rax # imm = 0xFFFFEFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $17, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $47, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-131073, %rax # imm = 0xFFFFDFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $16, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $46, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-262145, %rax # imm = 0xFFFFBFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $19, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $45, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $18, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $44, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1048577, %rax # imm = 0xFFEFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $21, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2

```

```

; CHECK-NEXT: kshiftrq $43, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-2097153, %rax # imm = 0xFFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $20, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $42, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-4194305, %rax # imm = 0xFFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $23, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $41, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-8388609, %rax # imm = 0xFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $22, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $40, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-16777217, %rax # imm = 0xFEFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $25, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $39, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-33554433, %rax # imm = 0xFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $24, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $38, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-67108865, %rax # imm = 0xFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $27, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $37, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-134217729, %rax # imm = 0xF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $26, %k0, %k2

```

```

; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $36, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $29, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $35, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $28, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $34, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1073741825, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $31, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $33, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k2
; CHECK-NEXT: vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT: kshiftrd $30, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k0, %k0
; CHECK-NEXT: kshiftrq $32, %k0, %k0
; CHECK-NEXT: korq %k0, %k2, %k0
; CHECK-NEXT: movabsq $-4294967297, %rax # imm = 0xFFFFFFFFEFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $1, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $31, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-8589934593, %rax # imm = 0xFFFFFFFFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k1, %k2
; CHECK-NEXT: kshiftrq $30, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17179869185, %rax # imm = 0xFFFFFFFFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0

```

```

; CHECK-NEXT: kshiftrd $3, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $29, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-34359738369, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $2, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $28, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-68719476737, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $5, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $27, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-137438953473, %rax # imm = 0xFFFFFFFFDFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $4, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $26, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-274877906945, %rax # imm = 0xFFFFFFFFBFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $7, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $25, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-549755813889, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $6, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $24, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1099511627777, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $9, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $23, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2199023255553, %rax # imm = 0xFFFFFFFFDFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2

```

```

; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $8, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $22, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4398046511105, %rax # imm = 0xFFFFFBFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $11, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $21, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-8796093022209, %rax # imm = 0xFFFFF7FFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $10, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $20, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17592186044417, %rax # imm = 0xFFFFEFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $13, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $19, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-35184372088833, %rax # imm = 0xFFFFDFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $12, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $18, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-70368744177665, %rax # imm = 0xFFFFBFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $15, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $17, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-140737488355329, %rax # imm = 0xFFFF7FFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $14, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $16, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-281474976710657, %rax # imm = 0xFFFFEFFFFFFFFFFFFF

```

```

; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $17, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $15, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-562949953421313, %rax # imm = 0xFFFFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $16, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $14, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1125899906842625, %rax # imm = 0xFFFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $19, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $13, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $18, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $12, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4503599627370497, %rax # imm = 0xFFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $21, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $11, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $20, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $10, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $23, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $9, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0

```



```

; CHECK-NEXT: movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $22, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $8, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $25, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $7, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $24, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $6, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $27, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $5, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $26, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $4, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $29, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $3, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $28, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $2, %k2, %k2

```

```

; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4611686018427387905, %rax # imm = 0xBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $31, %k1, %k2
; CHECK-NEXT: kshiftrlq $62, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $30, %k1, %k1
; CHECK-NEXT: kshiftrlq $1, %k0, %k0
; CHECK-NEXT: kshiftrlq $1, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k1, %k1
; CHECK-NEXT: korq %k1, %k0, %k1
; CHECK-NEXT: vmovdqu8 %ymm1, (%rsi) {%k1}
; CHECK-NEXT: kshiftrlq $32, %k1, %k1
; CHECK-NEXT: vmovdqu8 %ymm0, 32(%rsi) {%k1}
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

entry:
%a = load <64 x i8>, <64 x i8>* %x
%b = icmp eq <64 x i8> %a, zeroinitializer
%shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32
6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32
22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39,
i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32
55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)

@mem64_dst = dso_local global i64 0, align 8
@mem64_src = dso_local global i64 0, align 8
define dso_local i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK:      # %bb.0:
; CHECK-NEXT: kmovq mem64_src(%rip), %k0
; CHECK-NEXT: #APP
; CHECK-NEXT: #NO_APP
; CHECK-NEXT: kmovq %k0, mem64_dst(%rip)
; CHECK-NEXT: movl -{[0-9]+}(%rsp), %eax
; CHECK-NEXT: retq
%1 = alloca i32, align 4
%2 = load i64, i64* @mem64_src, align 8
%3 = call i64 @asm "", "=k,k,~{dirflag},~{fcsr},~{flags}"(i64 %2)
store i64 %3, i64* @mem64_dst, align 8
%4 = load i32, i32* %1, align 4
ret i32 %4
}

```

```

define dso_local void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-
vector-width"="256" {
; CHECK-LABEL: cmp_v8i64_sext:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %xptr
%y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y
%ext = sext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

```

```

define dso_local void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-
vector-width"="256" {
; CHECK-LABEL: cmp_v8i64_zext:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpsrlq $63, %ymm1, %ymm1
; CHECK-NEXT: vpsrlq $63, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %xptr
%y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y
%ext = zext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

```

```

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v16i8:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT: vpsubb %xmm1, %xmm2, %xmm2

```



```

%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}

```

```

define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256"
{
; CHECK-AVX512-LABEL: splatvar_rotate_v32i8:
; CHECK-AVX512:    # %bb.0:
; CHECK-AVX512-NEXT:  vpand {{\.?LCPI[0-9]+_?[0-9]+}}(%rip), %xmm1, %xmm1
; CHECK-AVX512-NEXT:  vpmovzxbq {{\.*#+}} xmm2 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-AVX512-NEXT:  vpsllw %xmm2, %ymm0, %ymm3
; CHECK-AVX512-NEXT:  vmovdqa {{\.*#+}} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-AVX512-NEXT:  vpsubb %xmm1, %xmm4, %xmm1
; CHECK-AVX512-NEXT:  vpcmpeqd %xmm4, %xmm4, %xmm4
; CHECK-AVX512-NEXT:  vpsllw %xmm2, %xmm4, %xmm2
; CHECK-AVX512-NEXT:  vpbroadcastb %xmm2, %ymm2
; CHECK-AVX512-NEXT:  vpmovzxbq {{\.*#+}} xmm1 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-AVX512-NEXT:  vpsrlw %xmm1, %ymm0, %ymm5
; CHECK-AVX512-NEXT:  vpand %ymm2, %ymm3, %ymm2
; CHECK-AVX512-NEXT:  vpsrlw %xmm1, %xmm4, %xmm0
; CHECK-AVX512-NEXT:  vpsrlw $8, %xmm0, %xmm0
; CHECK-AVX512-NEXT:  vpbroadcastb %xmm0, %ymm0
; CHECK-AVX512-NEXT:  vpternlogq $236, %ymm5, %ymm2, %ymm0
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL: splatvar_rotate_v32i8:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT:  vpand {{\.?LCPI[0-9]+_?[0-9]+}}(%rip), %xmm1, %xmm1
; CHECK-VBMI-NEXT:  vpmovzxbq {{\.*#+}} xmm2 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-VBMI-NEXT:  vpsllw %xmm2, %ymm0, %ymm3
; CHECK-VBMI-NEXT:  vpcmpeqd %xmm4, %xmm4, %xmm4
; CHECK-VBMI-NEXT:  vpsllw %xmm2, %xmm4, %xmm2
; CHECK-VBMI-NEXT:  vpbroadcastb %xmm2, %ymm2
; CHECK-VBMI-NEXT:  vpand %ymm2, %ymm3, %ymm2
; CHECK-VBMI-NEXT:  vmovdqa {{\.*#+}} xmm3 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-VBMI-NEXT:  vpsubb %xmm1, %xmm3, %xmm1
; CHECK-VBMI-NEXT:  vpmovzxbq {{\.*#+}} xmm1 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-VBMI-NEXT:  vpsrlw %xmm1, %ymm0, %ymm3
; CHECK-VBMI-NEXT:  vpsrlw %xmm1, %xmm4, %xmm0
; CHECK-VBMI-NEXT:  vmovdqa {{\.*#+}} ymm1 =
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]
; CHECK-VBMI-NEXT:  vperm %ymm0, %ymm1, %ymm0
; CHECK-VBMI-NEXT:  vpternlogq $236, %ymm3, %ymm2, %ymm0
; CHECK-VBMI-NEXT:  retq

```


source, and configuration files.

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```
; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -scalarize-masked-mem-intrin -S < %s | FileCheck %s
```

```
; Testing that masked scatters operating on scalable vectors that are  
; packed in SVE registers are not scalarized.
```

```
; CHECK-LABEL: @masked_scatter_nxv4i32(  
; CHECK: call void @llvm.masked.scatter.nxv4i32  
define void @masked_scatter_nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, <vscale x 4 x i1>  
%masks) {  
  call void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, i32 0, <vscale x 4 x  
i1> %masks)  
  ret void  
}
```

```
; Testing that masked scatters operating on scalable vectors of FP  
; data that is packed in SVE registers are not scalarized.
```

```
; CHECK-LABEL: @masked_scatter_nxv2f64(  
; CHECK: call void @llvm.masked.scatter.nxv2f64  
define void @masked_scatter_nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, <vscale x 2 x  
i1> %masks) {  
  call void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, i32 0,  
<vscale x 2 x i1> %masks)
```

```

ret void
}

; Testing that masked scatters operating on scalable vectors of FP
; data that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f16(
; CHECK: call void @llvm.masked.scatter.nxv2f16
define void @masked_scatter_nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, <vscale x 2 x i1>
%mask) {
    call void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, i32 0, <vscale x 2
x i1> %mask)
    ret void
}

; Testing that masked scatters operating on 64-bit fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions.

; CHECK-LABEL: @masked_scatter_v2f32(
; CHECK-NOT: @llvm.masked.scatter.v2f32(
define void @masked_scatter_v2f32(<2 x float> %data, <2 x float*> %ptrs, <2 x i1> %mask) {
    call void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x float*> %ptrs, i32 0, <2 x i1> %mask)
    ret void
}

; Testing that masked scatters operating on 128-bit fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_scatter_v4i32(
; CHECK-NOT: @llvm.masked.scatter.v4i32(
define void @masked_scatter_v4i32(<4 x i32> %data, <4 x i32*> %ptrs, <4 x i1> %mask) {
    call void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x i32*> %ptrs, i32 0, <4 x i1> %mask)
    ret void
}

declare void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, i32 %align,
<vscale x 4 x i1> %mask)
declare void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, i32
%align, <vscale x 2 x i1> %mask)
declare void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, i32 %align,
<vscale x 2 x i1> %mask)
declare void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x float*> %ptrs, i32 %align, <2 x i1> %mask)
declare void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x i32*> %ptrs, i32 %align, <4 x i1> %mask)
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```
static_library("BSD-Archive") {
  output_name = "lldbPluginObjectContainerBSDArchive"
  configs += [ "//lvm/utils/gn/build:lldb_code" ]
  deps = [
    "//lldb/source/Core",
    "//lldb/source/Host",
    "//lldb/source/Symbol",
    "//lvm/lib/Support",
  ]
  sources = [ "ObjectContainerBSDArchive.cpp" ]
}
```

1.188 nss 3.80

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8efd98903fca507e58144865d26c47c91565bb55/quickjs/libunicode.h

* /opt/cola/permits/1397821141_1661521927.6057177/0/quickjspp-

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8efd98903fca507e58144865d26c47c91565bb55/quickjs/libunicode.c

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/*

* QuickJS C library

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/*

* C utilities

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8efd98903fca507e58144865d26c47c91565bb55/quickjs/cutils.h
* /opt/cola/permits/1397821141_1661521927.6057177/0/quickjspp-
8efd98903fca507e58144865d26c47c91565bb55-tar-gz/quickjspp-
8efd98903fca507e58144865d26c47c91565bb55/quickjs/cutils.c
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* QuickJS Javascript Engine
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/*

* Tiny arbitrary precision floating point library

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/*

* Linux klist like system

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/*

* QuickJS opcode definitions

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/*

* Regular Expression Engine

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8efd98903fca507e58144865d26c47c91565bb55/quickjs/libregexp-opcode.h

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/*

* QuickJS Javascript Engine

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```

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```
/*
```

```
* QuickJS atom definitions
```

```
*
```

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```

1.193 inotify-tools 3.22.6.0

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1.195 open-ldap 2.6.3

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1.197 wayland-ivi-extension r32-l4t-cisco.12

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1.198 ffmpeg n4.4.2

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
 - `libavcodec/x86/flac_dsp_gpl.asm`
 - `libavcodec/x86/idct_mmx.c`
 - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
 - `compat/solaris/make_sunver.pl`
 - `doc/t2h.pm`
 - `doc/txi2pod.pl`
 - `libswresample/tests/swresample.c`
 - `tests/checkasm/*`
 - `tests/tiny_ssim.c`
- the following filters in libavfilter:
 - `signature_lookup.c`
 - `vf_blackframe.c`
 - `vf_boxblur.c`
 - `vf_colormatrix.c`
 - `vf_cover_rect.c`
 - `vf_cropdetect.c`
 - `vf_delogo.c`
 - `vf_eq.c`
 - `vf_find_rect.c`
 - `vf_fspp.c`
 - `vf_histeq.c`
 - `vf_hqdn3d.c`
 - `vf_kerndeint.c`
 - `vf_lensfun.c` (GPL version 3 or later)
 - `vf_mcdeint.c`
 - `vf_mpdecimate.c`
 - `vf_nnedi.c`
 - `vf_owdenoise.c`
 - `vf_perspective.c`
 - `vf_phase.c`
 - `vf_pp.c`
 - `vf_pp7.c`
 - `vf_pullup.c`
 - `vf_repeatfields.c`
 - `vf_sab.c`
 - `vf_signature.c`
 - `vf_smartblur.c`
 - `vf_spp.c`
 - `vf_stereo3d.c`
 - `vf_super2xsai.c`
 - `vf_tinterlace.c`
 - `vf_uspp.c`

- `vf_vaguedenoiser.c`
- `vsrc_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

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- * `tests/reference.pnm` is under the expat license.

External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

Compatible libraries

The following libraries are under GPL version 2:

- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:

- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to

upgrade FFmpeg to the LGPL v3.

The VMAF, mbedTLS, RK MPI, OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

The smbclient library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the GPL v3.

Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

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@subheading END OF TERMS AND CONDITIONS

@page

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```
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1.204 bluez 5.62

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

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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1.207 hidapi 0.11.0

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Version 3, 29 June 2007

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The precise terms and conditions for copying, distribution and modification follow.

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1.209 zlib 1.2.12.1

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1.210 fdk-aac v2.0.1

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1.211 duktape 2.7.0

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1.212 classnames 2.3.2

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1.214 grpc 1.21.0

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1.215 zlib 1.2.13

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1.216 cookie 0.5.0

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1.217 pciutils 3.8.0

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-makefile--

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```

## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ :/g\" > $@; \
[ -s $@ ] || rm -f $@'

```

```
%d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^/1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@'
```

```
## Versioned libraries rules
```

```
%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@
```

```
## Bind internal references
```

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

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File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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File: config.guess (only for ICU4C)

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1.222 react 18.2.0

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1.224 redux-thunk 2.4.2

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1.225 unbound 1.17.0

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1.226 d-bus 1.15.2

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1.231 python 3.8.16

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's

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1.237 zutils 1.11

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1.238 icu4c 71.1

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

```

Versioned libraries rules

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

Bind internal references

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
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File: install-sh (only for ICU4C)

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1.239 boost 1.81.0

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1.240 io-ts 2.2.20

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1.241 react-new-window 1.0.1

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1.242 ujson 5.7.0

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1.243 python-requests 2.28.2

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1.244 curl 7.86.0

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1.245 libusb-gx 0.2.0

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1.248 cryptsetup 2.6.1

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1.249 sudo 1.9.13p3

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Ackeret, Matt
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Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.

Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
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Calvin, Gary
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Hieb, Dave
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The following people designed the artwork used on the sudo website:

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Sandwich logo (inspired by xkcd): Stillman, Mark

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1.252 pillow 9.5.0

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GIMP Palette

Name: Test

Columns: 0

#

GIMP Palette

Name: custompalette

Columns: 4

#

0 0 0 Index 3

65 38 30 Index 4

103 62 49 Index 6

79 73 72 Index 7

114 101 97 Index 8

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1.253 sysv-init 3.04

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1.254 redux 4.2.1

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1.255 libconfig 1.7.3

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License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

of these things:

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

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the

executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@center How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. 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.

@format

@t{

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

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Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
}
@end format

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school, if any, to sign a ``copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
}
@end format

That's all there is to it!

@c @bye

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Version 2.1, February 1999

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

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

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

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1.257 nginx 1.24.0

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1.259 python-pillow 9.5.0

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GIMP Palette

Name: Test

Columns: 0

#

GIMP Palette

Name: custompalette

Columns: 4

#

0 0 0 Index 3

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1.260 axios 1.4.0

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1.261 free-type 2.13.0

1.261.1 Available under license :

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# including the comment lines; this means that e.g. `FTL.TXT' matches all
# files that have this string in the file name (including the path relative
# to the current directory, always starting with `./').
#
# Don't put empty lines into this file!
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
```

```
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/zip/adler32.c
src/zip/ftzconf.c
src/zip/infblock.c
src/zip/infblock.h
src/zip/infcodes.c
src/zip/infcodes.h
src/zip/inffixed.h
src/zip/inflate.c
src/zip/inftrees.c
src/zip/inftrees.h
src/zip/infutil.c
src/zip/infutil.h
src/zip/zconf.h
src/zip/zlib.h
src/zip/zutil.c
src/zip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
# EOF
```

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2006-Jan-27

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1.262 busybox 1.36.1

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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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```
# -*- perl -*-
```

```
$testlist = [  
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,  
  # which OpenBSD treats as DLT_LOOP.  
  {  
    config_unset => 'IS_OPENBSD',  
    name => 'heap-overflow-1',  
    input => 'heap-overflow-1.pcap',  
    output => 'heap-overflow-1.out',  
    args => '-v'  
  },  
];  
  
1;
```

1.264 dnsmasq 2.89

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1.265 libcap 2.68

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* @version 3.0 (December 2000)

*

* Optimised ANSI C code for the Rijndael cipher (now AES)

*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
CC: Huzaiifa Sidhpurwala <huzaifas@redhat.com>
Subject: Re: License question about v4l1-compat.c
References: <4BF2445B.2080203@redhat.com>
In-Reply-To: <4BF2445B.2080203@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-AntiAbuse: This header was added to track abuse, please include it with any abuse report
X-AntiAbuse: Primary Hostname - gs8.inmotionhosting.com
X-AntiAbuse: Original Domain - redhat.com
X-AntiAbuse: Originator/Caller UID/GID - [47 12] / [47 12]
X-AntiAbuse: Sender Address Domain - thedirks.org
X-Source:
X-Source-Args:
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Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your
LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:

> Hi Bill,

>

> AFAIK you've been out of the v4l loop, so I assume you

> don't know me, this let me start with a shot self introduction:

>

> I'm a Linux enthusiast / developer. Amongst other things I've

> ported over many webcam drivers from v4l1 to v4l2 and I'm the

> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.
>
> One problem with getting these merged is that a lot of webcam
> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
>
> This was not acceptable thus it was time to write a library
> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and
> libv4lconvert being written, with libv4l2 being the glue sitting
> in between and libv4lconvert doing the actual conversion.
>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
> one needs to do is write v4lx_open instead of plain open when opening
> the device and then use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
> as skype).
>
> And now (finally) my question to you, lately we (the v4l devs) have
> been working on removing the last bits of v4l1 from the kernel.
> We would like to also remove the v4l1 ioctl compatibility (*), but
> currently libv4l1 depends on the v4l1 ioctl compatibility for some
> ioctls.
>
> Fixing this comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> then the GPL. Thus my question is would it be ok to use your v4l1 compat
> code under the LGPL inside libv4l1 ?
>
> Thanks & Regards,
>
> Hans
>

>
> (*) As in practice v411 apps need libv411 anyways both for format
> conversion and because some v412 drivers don't implement VIDIOCGMBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel
>

#####

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Message-ID: <4BF3A088.4050101@redhat.com>

Date: Wed, 19 May 2010 10:25:44 +0200

From: Gerd Hoffmann <kraxel@redhat.com>

User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.9) Gecko/20100430 Fedora/3.0.4-2.fc12
Thunderbird/3.0.4

MIME-Version: 1.0

To: Hans de Goede <hdegoede@redhat.com>

Subject: Re: Re-licensing v411-compat.c code which you wrote

References: <4BF3A064.7080602@redhat.com>

In-Reply-To: <4BF3A064.7080602@redhat.com>

Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 7bit

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Hi,

> My question to you is would it be ok to use your v411 compat
> contributions under the LGPL inside libv411 ?

Fine with me.

cheers,
Gerd

#####

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Message-ID: <3968c0dc456676eb0b1652936d795482.squirrel@webmail.xs4all.nl>

In-Reply-To: <4BF3A064.7080602@redhat.com>

References: <4BF3A064.7080602@redhat.com>

Date: Wed, 19 May 2010 10:27:50 +0200

Subject: Re: Re-licensing v411-compatible code which you wrote

From: "Hans Verkuil" <hverkuil@xs4all.nl>

To: "Hans de Goede" <hdegoede@redhat.com>

Cc: "Gerd Hoffmann" <kraxel@redhat.com>,

"Mauro Carvalho Chehab" <mchehab@redhat.com>,

"Trent Piepho" <xyzyz@speakeasy.org>,

"Huzaifa Sidhpurwala" <huzaifas@redhat.com>

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MIME-Version: 1.0

Content-Type: text/plain;charset=iso-8859-1
Content-Transfer-Encoding: 8bit
X-Virus-Scanned: by XS4ALL Virus Scanner
X-RedHat-Spam-Score: -0.02 (RCVD_IN_DNSWL_NONE,T_RP_MATCHES_RCVD)
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.16
X-Scanned-By: MIMEDefang 2.67 on 10.5.110.14

> Hi All,
>
> I'm writing you all because you've contributed patches
> to the kernels v411 ioctl compat code living in v411-compat.c
>
> Most of you already know me, and know that I'm working on
> making libv411 become independent of the kernel v411 ioctl
> compat code, so that it can be removed from the kernel.
>
> For those who don't know me or the v411 cleanup effort,
> read below for the long story.
>
> Making libv411 independent of the v411-compat.c code in the
> kernel comes down to looking at what the kernel compat code
> does and then implementing that in libv411. This will likely involve
> some direct copying and libv411 is licensed under the LGPL rather
> than the GPL. I already have permission from Bill Dirks who wrote
> the initial v411-compat code to do this.
>
> My question to you is would it be ok to use your v411 compat
> contributions under the LGPL inside libv411 ?

Permission granted.

Looking forward to seeing this in libv411 so we can kill this legacy code
in the kernel.

Regards,

Hans Verkuil

>
> Thanks & Regards,
>
> Hans
>
>
> The long story:
>
> I'm a Linux enthusiast / developer. Amongst other things I've

> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.
>
> One problem with getting these merged is that a lot of webcam
> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
>
> This was not acceptable thus it was time to write a library
> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and
> libv4lconvert being written, with libv4l2 being the glue sitting
> in between and libv4lconvert doing the actual conversion.
>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
> one needs to do is write v4lx_open instead of plain open when opening
> the device and them use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
> as skype).
>
> Lately we (the v4l devs) have been working on removing the last bits
> of v4l1 from the kernel. We would like to also remove the v4l1 ioctl
> compatibility (*), but currently libv4l1 depends on the v4l1 ioctl
> compatibility for some ioctls, we are working on fixing this
> which involves re-using code from v4l1-compat.c, hence the
> re-licensing permission question.
>
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel.
>

--

Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco

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Wed, 19 May 2010 10:25:00 -0400
Message-ID: <4BF3F4B9.3060803@redhat.com>
Date: Wed, 19 May 2010 11:24:57 -0300
From: Mauro Carvalho Chehab <mchehab@kernel.org>
User-Agent: Thunderbird 2.0.0.22 (X11/20090609)
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
CC: Gerd Hoffmann <kraxel@redhat.com>, Hans Verkuil <hverkuil@xs4all.nl>,
Trent Piepho <xyzyy@speakeasy.org>,
Huzaifa Sidhpurwala <huzaifas@redhat.com>
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

Hans de Goede wrote:

> Hi All,
>
> I'm writing you all because you've contributed patches
> to the kernels v4l1 ioctl compat code living in v4l1-compat.c
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> Making libv4l1 independent of the v4l1-compat.c code in the
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> than the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

LGPL for v4l1-compat code is fine for me.

Cheers,
Mauro

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1.269 python-ujson 5.7.0

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)

<https://github.com/client9/stringencoders>

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Numeric decoder derived from from TCL library

<https://opensource.apple.com/source/tcl/tcl-14/tcl/license.terms>

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1.270 libnvdc r32-l4t-cisco.3

1.270.1 Available under license :

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gz/nvdc/nvdc_headers/include/p4-mirror/sdk/nvidia/inc/xapi-sdk.h
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```
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```

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```
/*! \brief
```

```
* Define compile time symbols for CPU type and operating system type.
```

```
* This file should only contain preprocessor commands so that
```

```
* there are no dependencies on other files.
```

```
*
```

```
* cpuopsys.h
```

```
*
```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297790_1687538586.5811179/0/libnvc-r32-l4t-cisco-3-tar-gz/nvdc/nvdc_headers/include/p4-mirror/sdk/nvidia/inc/cpuopsys.h
```

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```
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```

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```

```
* /opt/cola/permits/1702297790_1687538586.5811179/0/libnvdc-r32-l4t-cisco-3-tar-gz/nvdc/Makefile
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* Author: Robert Morell <rmorell@nvidia.com>

* Some code based on fbdev extensions written by:

* Erik Gilling <konkers@android.com>

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```

*/
/**
 * NvColorDataType defines the data type of color components.
 *
 * The default datatype of color components is 'Integer' which should be used
 * when the color value is to be interpreted as an integer value ranging from 0
 * to the maximum value representable by the width of the components (as
 * specified by the packing of the component). Use 'Integer' also when the
 * interpretation of color value bits is not known, does not matter or is
 * context dependent.
 *
 * A data type of 'Signed' indicates that the color value is to be interpreted
 * as a signed two's complement integer value. The width of the component
 * includes the sign bit (e.g. S8 ranges from -128 to 127).
 *
 * A data type of 'Float' indicates that float values are stored in the
 * components of the color. The combination of data type 'Float' and the
 * bit width of the component packing defines the final data format of the
 * individual component.
 *
 * The list below defines the accepted combinations, when adding new
 * float formats please add an entry into this list.
 *
 * - DataType = Float, Component bit width = 32:
 *   A IEEE 754 single precision float (binary32) with 1 sign bit,
 *   8 exponent bits and 23 mantissa bits.
 *
 * - DataType = Float, Component bit width = 16:
 *   A IEEE 754 half precision float (binary16) with 1 sign bit,
 *   5 exponent bits and 10 mantissa bits.
 *
 * - DataType = Float, Component bit width = 10:
 *   An unsigned nvfloat with 5 exponent bits and 5 mantissa bits.
 *
 * - DataType = Float, Component bit width = 11:
 *   An unsigned nvfloat with 5 exponent bits and 6 mantissa bits.
 *
 * - DataType = FloatISP, Component bit width = 16:
 *   A Nvidia proprietary Floating point representation for optimal
 *   usage in ISP, with 4 exponent bits and 12 mantissa bits.
 */

```

Found in path(s):

```

* /opt/cola/permits/1702297790_1687538586.5811179/0/libnvcv-r32-l4t-cisco-3-tar-
gz/nvdc/nvdc_headers/include/nvcolor.h

```

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```

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* /opt/cola/permits/1702297790_1687538586.5811179/0/libnvdc-r32-l4t-cisco-3-tar-gz/nvdc/nvdc_headers/include/nvrm_memmgr.h

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* /opt/cola/permits/1702297790_1687538586.5811179/0/libnvdc-r32-l4t-cisco-3-tar-gz/nvdc/src/displays.c

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* /opt/cola/permits/1702297790_1687538586.5811179/0/libnvdc-r32-l4t-cisco-3-tar-gz/nvdc/src/nvdc_priv.h

1.271 abseil-cpp 20230125.2

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1.272 libtins v4.3

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1.273 python-idna 3.3

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1.274 thousandeyesfutures 0.7

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1.275 pythonurllib 1.26.15

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1.276 free-type 2.13.0

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#  
# All lines in this file are patterns (relative to the top-level directory),  
# including the comment lines; this means that e.g. `FTL.TXT' matches all  
# files that have this string in the file name (including the path relative
```

```
# to the current directory, always starting with `./').
```

```
#
```

```
# Don't put empty lines into this file!
```

```
#
```

```
builds/unix/pkg.m4
```

```
#
```

```
docs/FTL.TXT
```

```
docs/GPLv2.TXT
```

```
#
```

```
include/freetype/internal/fthash.h
```

```
#
```

```
src/base/fthash.c
```

```
src/base/md5.c
```

```
src/base/md5.h
```

```
#
```

```
src/bdf/bdf.c
```

```
src/bdf/bdf.h
```

```
src/bdf/bdfdrivr.c
```

```
src/bdf/bdfdrivr.h
```

```
src/bdf/bdferror.h
```

```
src/bdf/bdflib.c
```

```
src/bdf/module.mk
```

```
src/bdf/README
```

```
src/bdf/rules.mk
```

```
#
```

```
src/pcf/module.mk
```

```
src/pcf/pcf.c
```

```
src/pcf/pcf.h
```

```
src/pcf/pcfdrivr.c
```

```
src/pcf/pcfdrivr.h
```

```
src/pcf/pcferror.h
```

```
src/pcf/pcfread.c
```

```
src/pcf/pcfread.h
```

```
src/pcf/pcfutil.c
```

```
src/pcf/pcfutil.h
```

```
src/pcf/README
```

```
src/pcf/rules.mk
```

```
#
```

```
src/gzip/adler32.c
```

```
src/gzip/ftzconf.c
```

```
src/gzip/infblock.c
```

```
src/gzip/infblock.h
```

```
src/gzip/infcodes.c
```

```
src/gzip/infcodes.h
```

```
src/gzip/inffixed.h
```

```
src/gzip/inflate.c
```

```
src/gzip/inftrees.c
```

```
src/gzip/inftrees.h
```



```
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
subprojects/dlg
#
# EOF
```

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2006-Jan-27

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1.277 python-chardet 5.0.0

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1.278 libpcap 1.10.4

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1.279 rxcpp v4.1.0

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1.280 wayland-ivi-extension master-cisco.15

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1.281 immer 10.0.2

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1.282 d3-array 3.2.4

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1.284 monaco-vim 0.4.0

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1.286 jquery 3.7.0

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1.289 busybox 1.36.1

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```
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```

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```

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```
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```

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```
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```

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

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1.291 Ixc 4.0.12

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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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1.292 libdrm 2.4.39-1

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```
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*
```

```

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*
*****/

```

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```

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/intel/intel_bufmgr_fake.c

```

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```

/* exynos_drm.h

```

```

*
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* Joonyoung Shim <jy0922.shim@samsung.com>
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/* dristat.c --

* Created: Mon Jan 15 05:05:07 2001 by faith@acm.org

*

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*

* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

*

*/

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/dristat.c
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* Authors:

* Kristian Høgsberg <krh@bitplanet.net>

*

*/

Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/name_from_fd.c

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/intel/test_decode.c

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```
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/radeon/bof.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/radeon/bof.c
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```

```
AC_PREREQ([2.63])
AC_INIT([libdrm],
        [2.4.39],
        [https://bugs.freedesktop.org/enter_bug.cgi?product=DRI],
        [libdrm])
```

```

AC_CONFIG_HEADERS([config.h])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CONFIG_MACRO_DIR([m4])
AC_CONFIG_AUX_DIR([build-aux])

AM_INIT_AUTOMAKE([1.10 foreign dist-bzip2])
AM_MAINTAINER_MODE([enable])

# Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes]])])

# Check for programs
AC_PROG_CC

AC_USE_SYSTEM_EXTENSIONS
AC_SYS_LARGEFILE
AC_FUNC_ALLOCA

# Initialize libtool
LT_PREREQ([2.2])
LT_INIT([disable-static])

PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs)
AC_SUBST(PTHREADSTUBS_CFLAGS)
AC_SUBST(PTHREADSTUBS_LIBS)

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
AC_ARG_ENABLE([udev],
    [AS_HELP_STRING([--enable-udev],
        [Enable support for using udev instead of mknod (default: disabled)]),
    [UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE([libkms],
    [AS_HELP_STRING([--disable-libkms],
        [Disable KMS mm abstraction library (default: auto)]),
    [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE([intel],
    [AS_HELP_STRING([--disable-intel],
        [Enable support for intel's KMS API (default: auto)]),
    [INTEL=$enableval], [INTEL=auto])

AC_ARG_ENABLE([radeon],
    [AS_HELP_STRING([--disable-radeon],
        [Enable support for radeon's KMS API (default: auto)]),

```

[RADEON=\$enableval], [RADEON=auto])

AC_ARG_ENABLE(nouveau,
AS_HELP_STRING([--disable-nouveau],
[Enable support for nouveau's KMS API (default: auto)]),
[NOUVEAU=\$enableval], [NOUVEAU=auto])

AC_ARG_ENABLE(vmwgfx-experimental-api,
AS_HELP_STRING([--enable-vmwgfx-experimental-api],
[Install vmwgfx's experimental kernel API header (default: disabled)]),
[VMWGFX=\$enableval], [VMWGFX=no])

AC_ARG_ENABLE(omap-experimental-api,
AS_HELP_STRING([--enable-omap-experimental-api],
[Enable support for OMAP's experimental API (default: disabled)]),
[OMAP=\$enableval], [OMAP=no])

AC_ARG_ENABLE(exynos-experimental-api,
AS_HELP_STRING([--enable-exynos-experimental-api],
[Enable support for EXYNOS's experimental API (default: disabled)]),
[EXYNOS=\$enableval], [EXYNOS=no])

dnl =====

dnl check compiler flags

AC_DEFUN([LIBDRM_CC_TRY_FLAG], [
AC_MSG_CHECKING([whether \$CC supports \$1])

libdrm_save_CFLAGS="\$CFLAGS"
CFLAGS="\$CFLAGS \$1"

AC_COMPILE_IFELSE([], [libdrm_cc_flag=yes], [libdrm_cc_flag=no])
CFLAGS="\$libdrm_save_CFLAGS"

if test "x\$libdrm_cc_flag" = "xyes"; then
ifelse([\$2], , :, [\$2])
else
ifelse([\$3], , :, [\$3])
fi
AC_MSG_RESULT([\$libdrm_cc_flag])
])

dnl We use clock_gettime to check for timeouts in drmWaitVBlank

AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],
[AC_CHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],
[AC_MSG_ERROR([Couldn't find clock_gettime])])])
AC_SUBST([CLOCK_LIB])

AC_CHECK_FUNCS([open_memstream], [HAVE_OPEN_MEMSTREAM=yes])

dnl Use lots of warning flags with with gcc and compatible compilers

dnl Note: if you change the following variable, the cache is automatically
dnl skipped and all flags rechecked. So there's no need to do anything
dnl else. If for any reason you need to force a recheck, just change
dnl MAYBE_WARN in an ignorable way (like adding whitespace)

```
MAYBE_WARN="-Wall -Wextra \  
-Wsign-compare -Werror-implicit-function-declaration \  
-Wpointer-arith -Wwrite-strings -Wstrict-prototypes \  
-Wmissing-prototypes -Wmissing-declarations -Wnested-externs \  
-Wpacked -Wswitch-enum -Wmissing-format-attribute \  
-Wstrict-aliasing=2 -Winit-self \  
-Wdeclaration-after-statement -Wold-style-definition \  
-Wno-missing-field-initializers -Wno-unused-parameter \  
-Wno-attributes -Wno-long-long -Winline"  
  
# invalidate cached value if MAYBE_WARN has changed  
if test "x$libdrm_cv_warn_maybe" != "x$MAYBE_WARN"; then  
  unset libdrm_cv_warn_cflags  
fi  
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [  
  echo  
  WARN_CFLAGS=""  
  
  # Some warning options are not supported by all versions of  
  # gcc, so test all desired options against the current  
  # compiler.  
  #  
  # Note that there are some order dependencies  
  # here. Specifically, an option that disables a warning will  
  # have no net effect if a later option then enables that  
  # warnings, (perhaps implicitly). So we put some grouped  
  # options (-Wall and -Wextra) up front and the -Wno options  
  # last.  
  
  for W in $MAYBE_WARN; do  
    LIBDRM_CC_TRY_FLAG([$W], [WARN_CFLAGS="$WARN_CFLAGS $W"])  
  done  
  
  libdrm_cv_warn_cflags=$WARN_CFLAGS  
  libdrm_cv_warn_maybe=$MAYBE_WARN  
  
  AC_MSG_CHECKING([which warning flags were supported])  
  WARN_CFLAGS="$libdrm_cv_warn_cflags"
```

```

if test "x$UDEDEV" = xyes; then
  AC_DEFINE(UDEV, 1, [Have UDEV support])
fi

AC_CANONICAL_HOST
if test "x$LIBKMS" = xauto ; then
  case $host_os in
    linux*) LIBKMS="yes" ;;
    *) LIBKMS="no" ;;
  esac
fi

AM_CONDITIONAL(HAVE_LIBKMS, [test "x$LIBKMS" = xyes])

AM_CONDITIONAL(HAVE_VMWGFX, [test "x$VMWGFX" = xyes])
if test "x$VMWGFX" = xyes; then
  AC_DEFINE(HAVE_VMWGFX, 1, [Have vmwgfx kernel headers])
fi

AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" = xyes])
if test "x$NOUVEAU" = xyes; then
  AC_DEFINE(HAVE_NOUVEAU, 1, [Have nouveau (nvidia) support])
fi

AM_CONDITIONAL(HAVE_OMAP, [test "x$OMAP" = xyes])
if test "x$OMAP" = xyes; then
  AC_DEFINE(HAVE_OMAP, 1, [Have OMAP support])
fi

AM_CONDITIONAL(HAVE_EXYNOS, [test "x$EXYNOS" = xyes])
if test "x$EXYNOS" = xyes; then
  AC_DEFINE(HAVE_EXYNOS, 1, [Have EXYNOS support])
fi

PKG_CHECK_MODULES(CAIRO, cairo, [HAVE_CAIRO=yes], [HAVE_CAIRO=no])
if test "x$HAVE_CAIRO" = xyes; then
  AC_DEFINE(HAVE_CAIRO, 1, [Have cairo support])
fi
AM_CONDITIONAL(HAVE_CAIRO, [test "x$HAVE_CAIRO" = xyes])

# For enumerating devices in test case
PKG_CHECK_MODULES(LIBUDEV, libudev, [HAVE_LIBUDEV=yes], [HAVE_LIBUDEV=no])
if test "x$HAVE_LIBUDEV" = xyes; then
  AC_DEFINE(HAVE_LIBUDEV, 1, [Have libudev support])
fi
AM_CONDITIONAL(HAVE_LIBUDEV, [test "x$HAVE_LIBUDEV" = xyes])

if test "x$INTEL" != "xno" -o "x$RADEON" != "xno" -o "x$NOUVEAU" != "xno" -o "x$OMAP" != "xno"; then

```

```

# Check for atomic intrinsics
AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives,
[
  drm_cv_atomic_primitives="none"

  AC_LINK_IFELSE([AC_LANG_PROGRAM([[
int atomic_add(int i) { return __sync_fetch_and_add (&i, 1); }
int atomic_cmpxchg(int i, int j, int k) { return __sync_val_compare_and_swap (&i, j, k); }
]], [[]]),
    [drm_cv_atomic_primitives="Intel"],[]])

  if test "x$drm_cv_atomic_primitives" = "xnone"; then
    AC_CHECK_HEADER([atomic_ops.h], drm_cv_atomic_primitives="libatomic-ops")
  fi

  # atomic functions defined in <atomic.h> & libc on Solaris
  if test "x$drm_cv_atomic_primitives" = "xnone"; then
    AC_CHECK_FUNC([atomic_cas_uint],
      drm_cv_atomic_primitives="Solaris")
  fi

])
if test "x$drm_cv_atomic_primitives" = xIntel; then
  AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1,
    [Enable if your compiler supports the Intel __sync_* atomic primitives])
fi
if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
  AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
fi

if test "x$drm_cv_atomic_primitives" = "xnone"; then
  if test "x$INTEL" != "xauto"; then
    if test "x$INTEL" != "xno"; then
      AC_MSG_ERROR([libdrm_intel depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those,
disable support for Intel GPUs by passing --disable-intel to ./configure])
    fi
  else
    AC_MSG_WARN([Disabling libdrm_intel. It depends on atomic operations, which were not found for
your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
    INTEL=no
  fi
  if test "x$RADEON" != "xauto"; then
    if test "x$RADEON" != "xno"; then
      AC_MSG_ERROR([libdrm_radeon depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those,
disable support for Radeon support by passing --disable-radeon to ./configure])
    fi
  fi

```

```

else
    AC_MSG_WARN([Disabling libdrm_radeon. It depends on atomic operations, which were not found for
your compiler/cpu. Try compiling with -march=native, or install the libatomic-op-dev package.])
    RADEON=no
fi
if test "x$NOUVEAU" != "xauto"; then
    if test "x$NOUVEAU" != "xno"; then
        AC_MSG_ERROR([libdrm_nouveau depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomic-op-dev package, or, failing both of those,
disable support for NVIDIA GPUs by passing --disable-nouveau to ./configure])
    fi
else
    AC_MSG_WARN([Disabling libdrm_nouveau. It depends on atomic operations, which were not found
for your compiler/cpu. Try compiling with -march=native, or install the libatomic-op-dev package.])
    NOUVEAU=no
fi
else
    if test "x$INTEL" != "xno"; then
        case $host_cpu in
            i?86|x86_64) INTEL=yes ;;
            *) INTEL=no ;;
        esac
    fi
    if test "x$RADEON" != "xno"; then
        RADEON=yes
    fi
    if test "x$NOUVEAU" != "xno"; then
        NOUVEAU=yes
    fi
fi
fi

if test "x$INTEL" != "xno"; then
    PKG_CHECK_MODULES(PCIAccess, [pciaccess >= 0.10])
fi
AC_SUBST(PCIAccess_CFLAGS)
AC_SUBST(PCIAccess_LIBS)

PKG_CHECK_MODULES(VAlGRIND, [valgrind], [have_valgrind=yes], [have_valgrind=no])
if test "x$have_valgrind" = "xyes"; then
    AC_DEFINE([HAVE_VALGRIND], 1, [Use valgrind intrinsics to suppress false warnings])
fi

AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" != "xno"])
AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" != "xno"])
AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" != "xno"])
if test "x$RADEON" = xyes; then
    AC_DEFINE(HAVE_RADEON, 1, [Have radeon support])

```

```
AC_ARG_WITH([kernel-source],
  [AS_HELP_STRING([--with-kernel-source],
    [specify path to linux kernel source]),
  [kernel_source="$with_kernel_source"])
AC_SUBST(kernel_source)
```

```
AC_SUBST(WARN_CFLAGS)
```

```
AC_CONFIG_FILES([
  Makefile
  libkms/Makefile
  libkms/libkms.pc
  intel/Makefile
  intel/libdrm_intel.pc
  radeon/Makefile
  radeon/libdrm_radeon.pc
  nouveau/Makefile
  nouveau/libdrm_nouveau.pc
  omap/Makefile
  omap/libdrm_omap.pc
  exynos/Makefile
  exynos/libdrm_exynos.pc
  tests/Makefile
  tests/modeprint/Makefile
  tests/modetest/Makefile
  tests/kmstest/Makefile
  tests/radeon/Makefile
  tests/vbltest/Makefile
  include/Makefile
  include/drm/Makefile
  libdrm.pc])
AC_OUTPUT
```

```
echo ""
echo "$PACKAGE_STRING will be compiled with:"
echo ""
echo " libkms      $LIBKMS"
echo " Intel API   $INTEL"
echo " vmwgfx API   $VMWGFX"
echo " Radeon API   $RADEON"
echo " Nouveau API  $NOUVEAU"
echo " OMAP API     $OMAP"
echo " EXYNOS API   $EXYNOS"
echo ""
```

Found in path(s):

```
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/configure.ac
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* Leif Delgass <ldelgass@retinalburn.net>

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/include/drm/mach64_drm.h

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* DRM based mode setting test program

* Copyright 2008 Tungsten Graphics

* Jakob Bornecrantz <jakob@tungstengraphics.com>

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* Jesse Barnes <jesse.barnes@intel.com>

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/vbltest/vbltest.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/modetest/buffers.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/modetest/buffers.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/modetest/modetest.c

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/radeon/radeon_bo.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/radeon/radeon_cs_gem.c

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/radeon/radeon_bo.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/radeon/radeon_bo_gem.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/radeon/radeon_bo_gem.c

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/include/drm/via_drm.h
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* Authors:
* Ben Widawsky <ben@bwidawsk.net>
*
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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/intel/intel_debug.h

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/* mga_drm.h -- Public header for the Matrox g200/g400 driver *- linux-c *-

* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com

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* Keith Whitwell <keith@tungstengraphics.com>
*
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* Gareth Hughes <gareth@valinux.com>
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Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/include/drm/mga_drm.h

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* Rob Clark <rob@ti.com>
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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/omap/omap_drm.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/omap/omap_drm.c

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* Jerome Glisse <j.glisse@gmail.com>

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/radeon/rbo.c

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-

2.4.39/tests/radeon/radeon_ttm.c

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/radeon/rbo.h

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/nouveau.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/vmwgfx.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/radeon.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/internal.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/linux.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/intel.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/kmstest/main.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/include/drm/vmwgfx_drm.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/dumb.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/libkms.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/api.c

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/* drmstat.c -- DRM device status and testing program

* Created: Tue Jan 5 08:19:24 1999 by faith@precisioninsight.com

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/drmstat.c
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/* savage_drm.h -- Public header for the savage driver
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/* radeon_drm.h -- Public header for the radeon driver -*- linux-c -*-

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* Gareth Hughes <gareth@valinux.com>

* Keith Whitwell <keith@tungstengraphics.com>

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Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
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* Authors:
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*
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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/xf86atomic.h

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* Authors:

* Eric Anholt <eric@anholt.net>

*

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/gem_flink.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/gem_basic.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/gem_readwrite.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/intel/intel_bufmgr_priv.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/gem_mmap.c

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Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/xf86drmMode.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/xf86drmMode.h
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/* xf86drmHash.c -- Small hash table support for integer -> integer mapping

* Created: Sun Apr 18 09:35:45 1999 by faith@precisioninsight.com

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*

* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

*

* DESCRIPTION

*

* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution. There are two potentially interesting things
* about this implementation:

*

* 1) The table is power-of-two sized. Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.

*

* 2) The hash computation uses a table of random integers [Hanson97,
* pp. 39-41].

*

* FUTURE ENHANCEMENTS

*

* With a table size of 512, the current implementation is sufficient for a
* few hundred keys. Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises. A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table. The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.

*

* REFERENCES

*

* [Hanson97] David R. Hanson. C Interfaces and Implementations:
* Techniques for Creating Reusable Software. Reading, Massachusetts:
* Addison-Wesley, 1997.

*

* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:
* Sorting and Searching. Reading, Massachusetts: Addison-Wesley, 1973.

*

* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April
* 1988, pp. 446-457.

*
*/

Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/xf86drmHash.c
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* Authors: Ben Skeggs

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*/opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/nouveau/bufctx.c
*/opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/nouveau/abi16.c
*/opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/nouveau/pushbuf.c

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/* xf86drmSL.c -- Skip list support

* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com

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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
* FUTURE ENHANCEMENTS
*
* REFERENCES
*
* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/

Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/xf86drmSL.c

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* Authors:

* Eric Anholt <eric@anholt.net>

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```
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a simple, straightforward implementation of the Park
* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
* multiplicative linear congruential generator (MLCG) with a period of
*  $2^{31}-1$ .
*
* This implementation is intended to provide a reliable, portable PRNG
* that is suitable for testing a hash table implementation and for
* implementing skip lists.
*
* FUTURE ENHANCEMENTS
*
* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated. [Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.
*
* If PRNGs are used for simulation, the period of the current
* implementation may be too short. [LE88] discusses methods of combining
```

* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M. [LE90 and Sch92] also provide information on
* long-period PRNGs.

*

* REFERENCES

*

* [Knuth81] Donald E. Knuth. The Art of Computer Programming. Volume 2:
* Seminumerical Algorithms. Reading, Massachusetts: Addison-Wesley, 1981.

*

* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
* Generators". CACM 31(6), June 1988, pp. 742-774.

*

* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10),
* October 1990, pp. 85-97.

*

* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
* Good Ones are Hard to Find". CACM 31(10), October 1988, pp. 1192-1201.

*

* [Sch92] Bruce Schneier. "Pseudo-Ransom Sequence Generator for 32-Bit
* CPUs". Dr. Dobbs's Journal 17(2), February 1992, pp. 34, 37-38, 40.

*

* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer. In
* "Technical Correspondence: Remarks on Choosing and Implementing Random
* Number Generators". CACM 36(7), July 1993, pp. 105-110.

*

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/xf86drmRandom.c

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2.4.39/radeon/radeon_surface.h

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/exynos/exynos_drm.c

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 * /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/setversion.c
 * /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/getstats.c
 * /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/updatedraw.c
 * /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/drmtest.c
 * /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/drmtest.h
 * /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/openclose.c
 * /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/intel/intel_bufmgr.c
 * /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/getversion.c

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1.293 libwebsockets 4.1.7

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/**
 * Creates an array of the own enumerable property names of `object`.
 *
 * Note: Non-object values are coerced to objects. See the
 * [ES spec](http://ecma-international.org/ecma-262/7.0/#sec-object.keys)
 * for more details.
 *
 * @static
 * @since 0.1.0
 * @memberOf _
 * @category Object
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 * @example
 *
 * function Foo() {
 *   this.a = 1;
 *   this.b = 2;
 * }
 *
 * Foo.prototype.c = 3;
 *
 * _.keys(new Foo);
 * // => ['a', 'b'] (iteration order is not guaranteed)
 *
 * _.keys('hi');
 * // => ['0', '1']
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1.295 libgpiod 1.6.3

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1.296 eglexternalplatform 1.1

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nvdc/drm_nvdc_headers/include/nvrm_host1x.h  
* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-  
nvdc/drm_nvdc_headers/include/nvrm_channel.h  
* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-  
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nvdc/drm_nvdc_headers/include/nvdc.h

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* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-

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* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-nvdc/drm_nvdc_headers/include/drm/drm.h

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```
*/opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-
nvdc/drm_nvdc_headers/include/nvrm_chip.h
```

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```
/*
 * nvctassert.h
 *
 * NVidia ct_assert (compile time assertion) function.
 *
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* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-nvdc/include/fb.h
* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-nvdc/src/fb.c

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```
|*   those rights set forth herein.           *|
|*                                           *|
\*****/
```

Found in path(s):

```
* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-
nvdc/drm_nvdc_headers/include/p4-mirror/sdk/nvidia/inc/nvtypes.h
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nvdc/drm_nvdc_headers/include/nvrm_drf.h
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```

```
/*! \brief
* Define compile time symbols for CPU type and operating system type.
* This file should only contain preprocessor commands so that
* there are no dependencies on other files.
*
* cpuopsys.h
*
* Copyright (c) 2001, Nvidia Corporation. All rights reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-nvdc/drm_nvdc_headers/include/p4-mirror/sdk/nvidia/inc/cpuopsys.h
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```

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```

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```

```
*/
```

```
/**
```

```
* NvColorDataType defines the data type of color components.
```

```
*
```

```
* The default datatype of color components is 'Integer' which should be used
```

```
* when the color value is to be interpreted as an integer value ranging from 0
```

```
* to the maximum value representable by the width of the components (as
```

```
* specified by the packing of the component). Use 'Integer' also when the
```

```
* interpretation of color value bits is not known, does not matter or is
```

```
* context dependent.
```

```
*
```

```
* A data type of 'Signed' indicates that the color value is to be interpreted
```

```
* as a signed two's complement integer value. The width of the component
```

```
* includes the sign bit (e.g. S8 ranges from -128 to 127).
```

```
*
```

```
* A data type of 'Float' indicates that float values are stored in the
```

```
* components of the color. The combination of data type 'Float' and the
```

```
* bit width of the component packing defines the final data format of the
```

```
* individual component.
```

```
*
```

```
* The list below defines the accepted combinations, when adding new
```

```
* float formats please add an entry into this list.
```

```
*
```

```
* - DataType = Float, Component bit width = 32:
```

```
*   A IEEE 754 single precision float (binary32) with 1 sign bit,
```

```
*   8 exponent bits and 23 mantissa bits.
```

```
*
```

```
* - DataType = Float, Component bit width = 16:
*   A IEEE 754 half precision float (binary16) with 1 sign bit,
*   5 exponent bits and 10 mantissa bits.
*
* - DataType = Float, Component bit width = 10:
*   An unsigned nvfloat with 5 exponent bits and 5 mantissa bits.
*
* - DataType = Float, Component bit width = 11:
*   An unsigned nvfloat with 5 exponent bits and 6 mantissa bits.
*
* - DataType = FloatISP, Component bit width = 16:
*   A Nvidia proprietary Floating point representation for optimal
*   usage in ISP, with 4 exponent bits and 12 mantissa bits.
*/
```

Found in path(s):

```
* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-
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```
* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-
nvdc/nvll/Makefile
```

```
* /opt/cola/permits/1723834927_1687538463.440192/0/libdrm-nvdc-r32-l4t-cisco-18-tar-gz/drm-nvdc/Makefile
```

1.298 dlib 19.24

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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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```


For the test\zb.c component:

```
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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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```
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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<signature of Ty Coon>, 1 April 1989
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//curl

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//http-parser

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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
pointed towards suggestions on improving the documentation or server, and may be removed again by our
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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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<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></div><script type="text/javascript"><!--><![CDATA[</><!-->
if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
}
--><![></script>
</body></html>
```

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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its purpose remains meaningful.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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the executable.

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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"This License" refers to version 3 of the GNU General Public License.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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1.301 nghttp2 1.54.0

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1.302 libxml2 2.11.4

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1.304 linux-kernel 3.6.6

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

(If you think you should be in this list, but you are not, drop a
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b4fe0c8c0e57a74c01755fa9362703b60d7ee49

d

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/*

* HMAC-SHA-224/256/384/512 implementation

* Last update: 06/15/2005

* Issue date: 06/15/2005

*

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- */

Found in path(s):

- * /opt/cola/permits/1724496559_1687282121.8723054/0/mmc-utils-
- b4fe0c8c0e57a74c01755fa9362703b60d7ee49d-tar-gz/mmc-utils-
- b4fe0c8c0e57a74c01755fa9362703b60d7ee49d/3rdparty/hmac_sha/hmac_sha2.c
- * /opt/cola/permits/1724496559_1687282121.8723054/0/mmc-utils-
- b4fe0c8c0e57a74c01755fa9362703b60d7ee49d-tar-gz/mmc-utils-
- b4fe0c8c0e57a74c01755fa9362703b60d7ee49d/3rdparty/hmac_sha/hmac_sha2.h

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- */

Found in path(s):

- * /opt/cola/permits/1724496559_1687282121.8723054/0/mmc-utils-b4fe0c8c0e57a74c01755fa9362703b60d7ee49d-tar-gz/mmc-utils-b4fe0c8c0e57a74c01755fa9362703b60d7ee49d/mmc.h
- * /opt/cola/permits/1724496559_1687282121.8723054/0/mmc-utils-b4fe0c8c0e57a74c01755fa9362703b60d7ee49d-tar-gz/mmc-utils-b4fe0c8c0e57a74c01755fa9362703b60d7ee49d/mmc_cmds.c
- * /opt/cola/permits/1724496559_1687282121.8723054/0/mmc-utils-b4fe0c8c0e57a74c01755fa9362703b60d7ee49d-tar-gz/mmc-utils-b4fe0c8c0e57a74c01755fa9362703b60d7ee49d/mmc_cmds.h

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/*

- * FIPS 180-2 SHA-224/256/384/512 implementation
- * Last update: 02/02/2007
- * Issue date: 04/30/2005
- *
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Found in path(s):

* /opt/cola/permits/1724496559_1687282121.8723054/0/mmc-utils-
b4fe0c8c0e57a74c01755fa9362703b60d7ee49d-tar-gz/mmc-utils-
b4fe0c8c0e57a74c01755fa9362703b60d7ee49d/3rdparty/hmac_sha/sha2.c
* /opt/cola/permits/1724496559_1687282121.8723054/0/mmc-utils-
b4fe0c8c0e57a74c01755fa9362703b60d7ee49d-tar-gz/mmc-utils-
b4fe0c8c0e57a74c01755fa9362703b60d7ee49d/3rdparty/hmac_sha/sha2.h

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*/

Found in path(s):

```
* /opt/cola/permits/1724496559_1687282121.8723054/0/mmc-utils-  
b4fe0c8c0e57a74c01755fa9362703b60d7ee49d-tar-gz/mmc-utils-  
b4fe0c8c0e57a74c01755fa9362703b60d7ee49d/lsmmc.c
```

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```
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```

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*  
* (This code is based on btrfs-progs/btrfs.c.)  
*/
```

Found in path(s):

```
* /opt/cola/permits/1724496559_1687282121.8723054/0/mmc-utils-  
b4fe0c8c0e57a74c01755fa9362703b60d7ee49d-tar-gz/mmc-utils-  
b4fe0c8c0e57a74c01755fa9362703b60d7ee49d/mmc.c
```

1.310 vim 9.0.1544

1.311 selinux 3.3

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1.312 Ittng-ust v2.13.0

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```
# Example makefile for build outside of the LTTng-UST tree.
```

```
hello:
```

```
 ${CC} -O2 -I. -o hello -lc -lltng-ust hello.c tp.c
```

```
.PHONY: clean
```

```
clean:
```

```
 rm -f hello
```

```
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```

```
#
```

```
# Example makefile for build outside of the LTTng-UST tree.
```

```
hello:
```

```
 ${CC} -O2 -I. -o hello -lc -lltng-ust hello.c tp.c
```

```
.PHONY: clean
```

```
clean:
```

```
 rm -f hello
```

```
COPYRIGHTS
```

```
-----
```

```
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```

```
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```

```
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```

```
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```

THANKS

Thanks to Ericsson for funding this work, providing real-life use cases, and testing.

Special thanks to Michel Dagenais and the [http://www.dorsal.polymtl.ca/\[DORSAL laboratory\]](http://www.dorsal.polymtl.ca/[DORSAL laboratory]) at cole Polytechnique de Montral for the LTTng journey.

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Copyright: Copyright 2000-2007 Niels Provos <provos@citi.umich.edu>
Copyright 2007-2012 Niels Provos and Nick Mathewson

License: BSD-3-clause

Comment:

The content of this directory is shipped with lldpd but not used for compilation when the system libevent is recent enough.

Files: libevent/arc4random.c

Copyright: Copyright (c) 2010 Chris Davis, Niels Provos, and Nick Mathewson
Copyright (c) 2010-2012 Niels Provos and Nick Mathewson
Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>

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Files: src/privsep_io.c

Copyright: Copyright (c) 2003 Can Erkin Acar
Copyright (c) 2003 Anil Madhavapeddy <anil@recoil.org>

License: ISC

Files: src/privsep_fd.c

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Copyright (c) 2002 Matthieu Herrb

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Files: src/client/utf8.c

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Files: m4/ax_cflags_gcc_option.m4

Copyright: Copyright (c) 2008 Guido U. Draheim <guidod@gmx.de>

License: GPL-2+ with Autoconf exception

Files: m4/ax_ld_check_flag.m4

Copyright: Copyright (c) 2008 Francesco Salvestrini <salvestrini@users.sourceforge.net>

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Files: m4/ax_lib_readline.m4

Copyright: Copyright (c) 2008 Ville Laurikari <vl@iki.fi>

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Files: m4/ax_prog_doxygen.m4

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Files: include/linux/*

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and many others

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Copyright (c) 1997 Todd C. Miller <Todd.Miller@courtesan.com>

License: ISC

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Files: compat/getline.c

Copyright: Copyright (c) 2009 The NetBSD Foundation, Inc

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Copyright: Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>

License: ISC

Files: compat/strtonum.c

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Files: debian/*

Copyright: 2008 Vincent Bernat <bernat@debian.org>

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1.318 tamlib-manufacturing 5.3.1

1.318.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_mfg_installed_data --  
*  
* August 2020, ACT2 Team  
*
```

* Copyright (c) 2020 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_installed_data.c

No license file was found, but licenses were detected in source scan.

/*-----

* ACT2 - Chip guard feature manufacturing routines

*

* May 2017, Burhan Wani

*

* Copyright (c) 2017 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_chipguard.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_mfg_utils.c --

*

* July 2013, ACT2 Team

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_utils.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_mfg_mapped_objects.c

*

* April 2017, Andrew K. Thanos, III

*

* Copyright (c) 2017 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_mapped_objects.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_mfg_cliip.c -- Chip Level Identity Information Package

*

* July 2013, ACT2 Team

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

/*-----

*/

Found in path(s):

* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_cliip.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_mfg_sudi_request.c

*

* July 2013, ACT2 Team

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

/*-----

*/

Found in path(s):

* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_sudi_request_v2.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_mfg_reserved_users.c

*

* April 2017, Andrew K. Thanos, III

*

* Copyright (c) 2017 by Cisco Systems, Inc.

* All rights reserved.

/*-----

*/

Found in path(s):

```
* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_reserved_users.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_mfg_eckmp.c --  
*  
* July 2013, ACT2 Team  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_eckmp.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_mfg_install_certs.c  
*  
* January 2017, Andrew K. Thanos, III  
*  
* Copyright (c) 2017 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_install_certs.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_notice.c --  
*  
* Description  
*   This file is generated prior to building  
*   from the Git context.  
*  
* DO NOT EDIT - THIS FILE IS GENERATED  
*  
* Copyright (c) 2022 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_notice.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_mfg_sudi_install.c  
*  
* July 2013, ACT2 Team  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_sudi_install.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_mfg_version.c -- manufacturing library version string  
*  
* July 2013, ACT2 Team  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_version.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_manufacturing.h --  
*  
* TAM Library v5.3.1-Release  
* Commit Date: Thu Aug 11 14:01:26 2022 -0700  
* by CISCO\gouthegd gouthegd@cisco.com  
*  
* DO NOT EDIT - THIS FILE IS GENERATED  
*  
* Copyright (c) 2022 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_manufacturing.h

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_mfg_login.c  
*  
* July 2013, ACT2 Team  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_login.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_mfg_errinfo.c --  
*  
* July 2013, ACT2 Team  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-gz/tam_mfg_library/tam_lib_mfg_errinfo.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_mfg_cmd_duration.c --  
*  
* November 2016, ACT2 Team  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297883_1687715901.1685977/0/tam-mfg-library-5-3-1-tar-

1.319 tamlib 5.4.2

1.319.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*  
* tam_lib_chipguard.c Chip guard feature APIs  
*  
* March 2017 - Burhan Wani  
*  
* Copyright (c) 2017 by Cisco Systems, Inc.  
* All rights reserved.  
*****  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_chipguard.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_private_lib.h -- internal definitions  
*  
* February 2013, Bo Berry  
*  
* Copyright (c) 2019 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_lib.h

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_aik_validate.c  
*  
* January 2017, Chandana Prakash  
*  
* Copyright (c) 2017 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```


Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_aik_validate.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_tomcrypt.h

*

* May 2014, Tzu-Min Chou (Jimmy)

*

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/*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_tomcrypt.h

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_message.c -- library messaging layer

*

* February 2013, Bo Berry

*

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* All rights reserved.

/*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_message.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_version.c -- TAM library version string APIs

*

* February 2013, Bo Berry

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

/*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_version.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* act2_rsa_crypto.h --  
*  
* February 2012, Bo Berry  
*  
* Copyright (c) 2012 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_rsa_crypto.h
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_library.h --  
*  
* TAM Library v5.4.2-Release  
* Commit Date: Thu Apr 13 09:08:30 2023 -0700  
* by huyt2 huyt2@cisco.com  
*  
* DO NOT EDIT - THIS FILE IS GENERATED  
*  
* Copyright (c) 2023 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_library.h
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_drand.c -- deterministic random APIs  
*  
* February 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-
```

5.4.2/tam_library/tam_lib_drand.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_ecc_crypto.c --  
*  
* March 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

`/opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_ecc_crypto.c`

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_pcr.c -- Digital Attestation APIs  
*  
* March 2020, tam_dev  
*  
* Copyright (c) 2020 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

`/opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_pcr.c`

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_object_manager.h --  
*  
* February 2013, Bo Berry  
*  
* Copyright(c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

`/opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_objname_library/tam_lib_object_manager.h`

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_compute_read_time.c --  
*  
* February 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_compute_read_time.c
```

No license file was found, but licenses were detected in source scan.

```
/*
```

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*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_tpm_library.h

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_message.h -- internal message formatting routines

*

* February 2013, Bo Berry

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

/*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_message.h

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_authentication.c

*

* May 2014, Jimmy Chou

*

* Copyright (c) 2014 by Cisco Systems, Inc.

* All rights reserved.

/*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_authentication.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_cert_verify.c

*

* May 2014, Tzu-Min Chou (Jimmy)

*

* Copyright (c) 2014 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_cert_verify.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_espi.c -- Aikido eSPI related APIs

*

* December 2015, Jimmy Chou

*

* Copyright (c) 2015 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_espi.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_utils.c --

*

* February 2013, Bo Berry

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_utils.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_uefi.h --  
*  
* July 2017, Burhan Wani  
*  
* Copyright (c) 2017 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_uefi.h
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_private_msg_util.c -- utility functionality for message encryption.  
*  
* Jun 2014, Srinivas Vundru  
*  
* Copyright (c) 2014 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_secure_msg.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_private_tomcrypt.c  
*  
* January 2016, Chandana Prakash  
*  
* Copyright (c) 2014 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_tomcrypt.c
```

No license file was found, but licenses were detected in source scan.

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

* tam_symmetric_crypto.c -- AES

*

* February 2013, Bo Berry

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_symmetric_crypto.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_safec.h -- Wrapper for CRT calls

*

* January 2015, Chandana Prakash

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_safec.h

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_chip.c -- chip specific APIs

*

* February 2012, Bo Berry

*

* Copyright (c) 2012 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_chip.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_rsa_crypto.c -- RSA Crypto

*

* February 2013, Bo Berry

*
* Copyright (c) 2020 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_rsa_crypto.c
No license file was found, but licenses were detected in source scan.

/*-----
* tam_lib_compute_read_time.h --
*
* February 2013, Bo Berry
*
* Copyright (c) 2013 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_compute_read_time.h
No license file was found, but licenses were detected in source scan.

/*-----
* tam_authen_admin.c -- Admin Authentication, "a"
*
* February 2013, Bo Berry
*
* Copyright (c) 2013-2018 by Cisco Systems, Inc.
* All rights reserved.
*
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* the property of Cisco Systems Incorporated, and its suppliers,
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* is strictly forbidden unless prior written permission is obtained
* from Cisco Systems Incorporated.
*-----
*/

Found in path(s):
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_authen_admin.c
No license file was found, but licenses were detected in source scan.

/*-----

```
* tam_lib_notice.c --
*
* Description
*   This file is generated prior to building
*   from the Git context.
*
* DO NOT EDIT - THIS FILE IS GENERATED
*
* Copyright (c) 2023 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_notice.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----
* tam_secure_objects.c -- Secure Object APIs
*
* February 2013, Bo Berry
*
* Copyright (c) 2013 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_secure_objects.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----
* tam_lib_object_manager.c --
*
* February 2013, Bo Berry
*
* Copyright (c) 2013 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_objname_library/tam_lib_object_manager.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_reg_access.c -- Aikido specific register access APIs  
*  
* December 2015, Jimmy Chou  
*  
* Copyright (c) 2015 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_reg_access.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_openssl_authentication.c --  
*  
* February 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_openssl_authentication.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_hash.c -- hash (SHA) APIs  
*  
* February 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_hash.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_user_sessions.c --  
*  
*-----
```

* February 2013, Bo Berry

*

* Copyright (c) 2012 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_user_sessions.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_tomhash.c

*

* May 2014, Tzu-Min Chou (Jimmy)

*

* Copyright (c) 2014 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_tomhash.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_safec.c

*

* July 2014, Chandana Prakash

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_safec.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_device.h --

*

* February 2013, Bo Berry

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_device.h

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_tommath.h

*

* May 2014, Tzu-Min Chou (Jimmy)

*

* Copyright (c) 2014 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_tommath.h

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_cert.h

*

* May 2014, Tzu-Min Chou (Jimmy)

*

* Copyright (c) 2014 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_cert.h

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_tommath.c

*

* May 2014, Tzu-Min Chou (Jimmy)

*

* Copyright (c) 2014 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_tommath.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_hmac.c -- Hash-based Message Authentication Code  
*  
* February 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_hmac.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_private_sha2.c -- SHA 2 bundled routines  
*  
* January 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_sha2.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_image_signing.c -- Image Signing APIs  
*  
* January 2017, TAM team  
*  
* Copyright (c) 2017 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-

5.4.2/tam_library/tam_lib_image_signing.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_openssl_aik_validate.c --  
*  
* February 2017, Chandana Prakash  
*  
* Copyright (c) 2017 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_openssl_aik_validate.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_types.h -- optional type file for primitive systems  
*  
* March 2013, Bo Berry  
*  
* Copyright (c) 2012 by Cisco Systems, Inc  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_types.h

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_private_endian.h -- internal macros to deal with byte order  
*  
* February 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_endian.h

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_uefi.c -- APIs for certificate and key retrieval  
*  
* July 2017, Burhan Wani  
*  
* Copyright (c) 2019 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_uefi.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_scc.c --  
*  
* February 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_scc.c
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_private_device.h -- internal device management data  
*  
* February 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_device.h
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_mailbox.c  
*  
*-----
```


* May 2016, Jimmy Chou

*

* Copyright (c) 2016 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_mailbox.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_libTom_sha2.c --

*

* February 2013, Bo Berry

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_libTom_sha2.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_device.c --

*

* February 2013, Bo Berry

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_device.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_debug.h -- Debug supporting macros

*

* February 2013, Bo Berry

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_debug.h

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_private_sha2.h -- abstracts the platform SHA APIs

*

* January 2013, Bo Berry

*

* Copyright (c) 2013 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_sha2.h

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_mapped_objects.c

*

* April 2017, Andrew K. Thanos, III

*

* Copyright (c) 2017 by Cisco Systems, Inc.

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_mapped_objects.c

No license file was found, but licenses were detected in source scan.

/*-----

* tam_lib_secure_msg.h -- secure transport APIs

*

* March 2014, Srinivas Vundru

*

* Copyright (c) 2014 by Cisco Systems, Inc

* All rights reserved.

*-----

*/

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_secure_msg.h

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_private_cert_parse.c  
*  
* May 2014, Tzu-Min Chou (Jimmy)  
*  
* Copyright (c) 2014 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_cert_parse.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_lib_private_msg_openssl.c -- utility functionality for openssl based crypto operations.  
*  
* Jun 2014, Srinivas Vundru  
*  
* Copyright (c) 2014 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-5.4.2/tam_library/tam_lib_private_msg_openssl.c

No license file was found, but licenses were detected in source scan.

```
/*-----  
* tam_trand.c -- true random APIs  
*  
* February 2013, Bo Berry  
*  
* Copyright (c) 2013 by Cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1702297969_1687534786.897944/0/tam-library-release-5-4-2-tar-gz/tam_library-release-

1.320 fairplay 10.0.10

1.320.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

TAHAL.h

Copyright (C) 2018 Apple Inc. All Rights Reserved.

*/

Found in path(s):

* /opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/fairplay_tee/inc/TAHAL.h

* /opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/tests/TAHAL_test/TAHAL.h

No license file was found, but licenses were detected in source scan.

/*

* hal_reference.c

* Copyright (C) 2018 Apple Inc. All Rights Reserved.

* Confidential and privileged

*/

Found in path(s):

* /opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/tests/TAHAL_test/hal_reference.c

No license file was found, but licenses were detected in source scan.

/*

* @file TAHAL_test.h

* @brief Test functions header

*

* Copyright (C) 2018 Apple Inc. All Rights Reserved.

* Confidential and privileged

*/

Found in path(s):

* /opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/tests/TAHAL_test/TAHAL_test.h

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Found in path(s):

* /opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/tests/TAHAL_test/generate_test_vectors.bash

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```
/*
 * TAHAL_test.c
 * Copyright (C) 2018 Apple Inc. All Rights Reserved.
 * Confidential and privileged
 * Author: Jean-Baptiste Lescher
 */
```

Found in path(s):

```
* /opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/tests/TAHAL_test/TAHAL_test.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * hal_openssl.c
 * Copyright (C) 2018 Apple Inc. All Rights Reserved.
 * Confidential and privileged
 * Author: Jean-Baptiste Lescher
 */
```

Found in path(s):

```
* /opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/tests/TAHAL_test/hal_openssl.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * libfps Basic Test
 *
 * Verifies basic functionality of libFPS.so, including decryption.
 * Requires communication with libTACore.a and key server.
 *
 * Dependencies on openssl, curl, and json-c.
 *
 * Sections with "#error TODO" require some modification.
 *
 * Copyright (C) 2011-2019 Apple Inc. All Rights Reserved.
 * Confidential and privileged
 */
```

Found in path(s):

```
* /opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/tests/libfps_basic_test.c
No license file was found, but licenses were detected in source scan.
```

```
// Copyright (C) 2018 Apple Inc. All Rights Reserved.
```

Found in path(s):

```
* /opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/fairplay_tee/inc/TACoreInterface.h
No license file was found, but licenses were detected in source scan.
```

```
/*
 * libTACore Basic Test
```

```
*
* Verifies some functionality of libTACore.a as a standalone library.
* Most of the functionality, including decryption, is not included
* here, because it cannot be verified without communication to
* libFPS.so in the REE.
*
* Sections with "#error TODO" require some modification.
*
* Copyright (C) 2019 Apple Inc. All Rights Reserved.
* Confidential and privileged
*/
```

Found in path(s):

```
*/opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/tests/libtacore_basic_test.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* @file main.c
* @brief Entry point
*
* Copyright (C) 2018 Apple Inc. All Rights Reserved.
*/
```

Found in path(s):

```
*/opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/tests/TAHAL_test/main.c
No license file was found, but licenses were detected in source scan.
```

```
// Copyright: (c) 2017-2018 Apple Inc., all rights reserved
```

Found in path(s):

```
*/opt/cola/permits/1702297921_1687560904.0752783/0/fairplay-10-0-10-tar-gz/fairplay_ree/inc/FPSLibraryInterface.h
```

1.321 ciscossl-fom 7.2a.202104051307

1.321.1 Available under license :

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```
/* -----
* crypto/des/asm/des_enc-octeon.c - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.
*
* January 2013
*
* Copyright (c) 2013 by cisco Systems, Inc.
* All rights reserved.
* -----
```

*/

Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/cisccssl-fom-7-2a-202104051307-tar-gz/cisccssl-fom-7.2a.202104051307/crypto/des/asm/des_enc-octeon.c

No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/env perl
```

```
# Copyright 1995-2016 The OpenSSL Project Authors. All Rights Reserved.
```

```
#
```

```
# Licensed under the OpenSSL license (the "License"). You may not use
```

```
# this file except in compliance with the License. You can obtain a copy
```

```
# in the file LICENSE in the source distribution or at
```

```
# https://www.openssl.org/source/license.html
```

```
# The inner loop instruction sequence and the IP/FP modifications are from
```

```
# Svend Olaf Mikkelsen
```

```
$0 =~ m/(.*[\\])(^\\)+$/; $dir=$1;
```

```
push(@INC,"${dir}","${dir}../../perlasm");
```

```
require "x86asm.pl";
```

```
$output=pop;
```

```
&asm_init($ARGV[0]);
```

```
$L="edi";
```

```
$R="esi";
```

```
&external_label("DES_SPtrans");
```

```
&fcrypt_body("fcrypt_body");
```

```
&asm_finish();
```

```
sub fcrypt_body
```

```
{
```

```
local($name,$do_ip)=@_;
```

```
&function_begin($name);
```

```
&comment("");
```

```
&comment("Load the 2 words");
```

```
$trans="ebp";
```

```
&xor($L,$L);
```

```
&xor($R,$R);
```

```
# PIC-ification:-)
```

```

&picmeup("edx","DES_SPtrans");
#if ($cpp) { &picmeup("edx","DES_SPtrans"); }
#else { &lea("edx",&DWP("DES_SPtrans")); }
&push("edx"); # becomes &swtmp(1)
#
&mov($trans,&wparam(1)); # reloaded with DES_SPtrans in D_ENCRYPT

&push(&DWC(25)); # add a variable

&set_label("start");
for ($i=0; $i<16; $i+=2)
{
&comment("");
&comment("Round $i");
&D_ENCRYPT($i,$L,$R,$i*2,$trans,"eax","ebx","ecx","edx");

&comment("");
&comment("Round ".sprintf("%d",$i+1));
&D_ENCRYPT($i+1,$R,$L,($i+1)*2,$trans,"eax","ebx","ecx","edx");
}
&mov("ebx", &swtmp(0));
&mov("eax", $L);
&dec("ebx");
&mov($L, $R);
&mov($R, "eax");
&mov(&swtmp(0), "ebx");
&jnz(&label("start"));

&comment("");
&comment("FP");
&mov("edx",&wparam(0));

&FP_new($R,$L,"eax",3);
&mov(&DWP(0,"edx","",0),"eax");
&mov(&DWP(4,"edx","",0),$L);

&add("esp",8); # remove variables

&function_end($name);
}

sub D_ENCRYPT
{
local($r,$l,$r,$s,$trans,$u,$tmp1,$tmp2,$t)=@_;

&mov($u, &wparam(2)); # 2
&mov($t, $R);
&shr($t, 16); # 1

```



```

&mov( $tmp2, &wparam(3)); # 2
&xor( $t, $R); # 1

&and( $u, $t); # 2
&and( $t, $tmp2); # 2

&mov( $tmp1, $u);
&shl( $tmp1, 16); # 1
&mov( $tmp2, $t);
&shl( $tmp2, 16); # 1
&xor( $u, $tmp1); # 2
&xor( $t, $tmp2); # 2
&mov( $tmp1, &DWP(&n2a($S*4),$trans,"",0)); # 2
&xor( $u, $tmp1);
&mov( $tmp2, &DWP(&n2a(($S+1)*4),$trans,"",0)); # 2
&xor( $u, $R);
&xor( $t, $R);
&xor( $t, $tmp2);

&and( $u, "0xfcfcfcfc" ); # 2
&xor( $tmp1, $tmp1); # 1
&and( $t, "0xfcfcfcfc" ); # 2
&xor( $tmp2, $tmp2);
&movb( &LB($tmp1), &LB($u) );
&movb( &LB($tmp2), &HB($u) );
&rotr( $t, 4 );
&mov( $trans, &swtmp(1));
&xor( $L, &DWP(" ", $trans, $tmp1, 0));
&movb( &LB($tmp1), &LB($t) );
&xor( $L, &DWP("0x200", $trans, $tmp2, 0));
&movb( &LB($tmp2), &HB($t) );
&shr( $u, 16);
&xor( $L, &DWP("0x100", $trans, $tmp1, 0));
&movb( &LB($tmp1), &HB($u) );
&shr( $t, 16);
&xor( $L, &DWP("0x300", $trans, $tmp2, 0));
&movb( &LB($tmp2), &HB($t) );
&and( $u, "0xff" );
&and( $t, "0xff" );
&mov( $tmp1, &DWP("0x600", $trans, $tmp1, 0));
&xor( $L, $tmp1);
&mov( $tmp1, &DWP("0x700", $trans, $tmp2, 0));
&xor( $L, $tmp1);
&mov( $tmp1, &DWP("0x400", $trans, $u, 0));
&xor( $L, $tmp1);
&mov( $tmp1, &DWP("0x500", $trans, $t, 0));
&xor( $L, $tmp1);
&mov( $trans, &wparam(1));

```

```

}

sub n2a
{
printf("%d",$_[0]);
}

# now has a side affect of rotating $a by $shift
sub R_PERM_OP
{
local($a,$b,$tt,$shift,$mask,$last)=@_;

&rotr( $a, $shift ) if ($shift != 0);
&mov( $tt, $a );
&xor( $a, $b );
&and( $a, $mask );
if ($notlast eq $b)
{
&xor( $b, $a );
&xor( $tt, $a );
}
else
{
&xor( $tt, $a );
&xor( $b, $a );
}
&comment("");
}

sub IP_new
{
local($l,$r,$tt,$lr)=@_;

&R_PERM_OP($l,$r,$tt, 4,"0xf0f0f0f0",$l);
&R_PERM_OP($r,$tt,$l,20,"0xffff0000f",$l);
&R_PERM_OP($l,$tt,$r,14,"0x33333333",$r);
&R_PERM_OP($tt,$r,$l,22,"0x03fc03fc",$r);
&R_PERM_OP($l,$r,$tt, 9,"0xaaaaaaaa",$r);

if ($lr != 3)
{
if (($lr-3) < 0)
{ &rotr($tt, 3-$lr); }
else { &rotr($tt, $lr-3); }
}
if ($lr != 2)
{
if (($lr-2) < 0)

```

```

    { &rotr($r, 2-$lr); }
    else { &rotr($r, $lr-2); }
  }
}

sub FP_new
{
  local($l,$r,$tt,$lr)=@_;

  if ($lr != 2)
  {
    if (($lr-2) < 0)
    { &rotr($r, 2-$lr); }
    else { &rotr($r, $lr-2); }
  }
  if ($lr != 3)
  {
    if (($lr-3) < 0)
    { &rotr($l, 3-$lr); }
    else { &rotr($l, $lr-3); }
  }

  &R_PERM_OP($l,$r,$tt, 0,"0xaaaaaaaa", $r);
  &R_PERM_OP($tt,$r,$l,23,"0x03fc03fc", $r);
  &R_PERM_OP($l,$r,$tt,10,"0x33333333", $l);
  &R_PERM_OP($r,$tt,$l,18,"0xffff0000f", $l);
  &R_PERM_OP($l,$tt,$r,12,"0xf0f0f0f0", $r);
  &rotr($tt , 4);
}

```

Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/des/asm/crypt586.pl

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Found in path(s):

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```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/engine/engine.h
```

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```
/* -----  
* crypto/sha/asm/sha512-octeon.c - Cavium Octeon specific hardware assist  
* functionality that is to reside within the FIPS canister.  
*  
* January 2013  
*  
* Copyright (c) 2013 by cisco Systems, Inc.  
* All rights reserved.  
* -----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/sha/asm/sha512-octeon.c
```

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*/  
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* https://www.openssl.org/source/license.html  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/rand_int.h  
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/include/internal/rand_int.h
```

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```

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*/

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/cmac.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/cmac/cmac.h

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/octeon_papi.h

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/octeon_papi.c

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*

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/uid.c

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/**

* rijndael-alg-fst.c

*

* @version 3.0 (December 2000)

*

* Optimised ANSI C code for the Rijndael cipher (now AES)

*

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

* @author Paulo Barreto <paulo.barreto@terra.com.br>

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/aes/aes_x86core.c

No license file was found, but licenses were detected in source scan.

/*-----
* fips/kdf/fips_kdf_srtp.c - SRTP KDF vector tests
*
* March 2015
*
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*-----
*/

Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/test/fips_kdf_srtp.c
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/fips/kdf/fips_kdf_srtp.c

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package x86asm;

*out=@::out;

\$.:lbdecor="\\$L"; # local label decoration

\$.:nmdecor="_"; # external name decoration

\$initseg="";

```

$segment="";

sub ::generic
{ my ($opcode,@arg)=@_;

# fix hexadecimal constants
for (@arg) { s/(?<![\w\$.])0x([0-9a-f]+)/0$1h/oi; }

if ($opcode =~ /lea/ && @arg[1] =~ s/*PTR\s+(\(.*\))$/OFFSET $1/ # no []
{ $opcode="mov"; }
elsif ($opcode !~ /mov[dq]$/)
{ # fix xmm references
$arg[0] =~ s/\b[A-Z]+WORD\s+PTR/XMMWORD PTR/i if ($arg[-1] =~ \b xmm[0-7] \b/i);
$arg[-1] =~ s/\b[A-Z]+WORD\s+PTR/XMMWORD PTR/i if ($arg[0] =~ \b xmm[0-7] \b/i);
}

&::emit($opcode,@arg);
1;
}
#
# opcodes not covered by ::generic above, mostly inconsistent namings...
#
sub ::call { &::emit("call",(&::islabel($_[0]) or "$nmdecor$_[0]")); }
sub ::call_ptr { &::emit("call",@_); }
sub ::jmp_ptr { &::emit("jmp",@_); }
sub ::lock { &::data_byte(0xf0); }

sub get_mem
{ my ($size,$addr,$reg1,$reg2,$idx)=@_;
my($post,$ret);

if (!defined($idx) && 1*$reg2) { $idx=$reg2; $reg2=$reg1; undef $reg1; }

$ret .= "$size PTR " if ($size ne "");

$addr =~ s/^\s+//;
# prepend global references with optional underscore
$addr =~ s/^( [\^ \- 0-9] [ \^ \- ] * ) /&::islabel($1) or "$nmdecor$1"/ige;
# put address arithmetic expression in parenthesis
$addr="($addr)" if ($addr =~ /\^+ [ \- ] + \. + $/);

if (($addr ne "") && ($addr ne 0))
{ if ($addr !~ /\^ - /) { $ret .= "$addr"; }
else { $post=$addr; }
}
$ret .= "[";

if ($reg2 ne "")

```

```

    { $idx!=0 or $idx=1;
$ret .= "$reg2*$idx";
$ret .= "+$reg1" if ($reg1 ne "");
    }
    else
    { $ret .= "$reg1"; }

$ret .= "$post]";
$ret =~ s/+/\/]/; # in case $addr was the only argument
$ret =~ s/[\s*\/];

$ret;
}
sub ::BP { &get_mem("BYTE",@_); }
sub ::WP { &get_mem("WORD",@_); }
sub ::DWP { &get_mem("DWORD",@_); }
sub ::QWP { &get_mem("QWORD",@_); }
sub ::BC { "@_"; }
sub ::DWC { "@_"; }

sub ::file
{ my $tmp=<<<___;
IF \@Version LT 800
ECHO MASM version 8.00 or later is strongly recommended.
ENDIF
.686
.MODEL FLAT
OPTION DOTNAME
IF \@Version LT 800
.text\$\ SEGMENT PAGE 'CODE'
ELSE
.text\$\ SEGMENT ALIGN(64) 'CODE'
ENDIF
___
    push(@out,$tmp);
    $segment = ".text\$";
}

sub ::function_begin_B
{ my $func=shift;
my $global=($func !~ /^_/);
my $begin="${:lbdecor}_{$func}_begin";

&::LABEL($func,$global?"$begin":"$nmdecor$func");
$func="ALIGN\t16\n". $nmdecor.$func."\tPROC";

if ($global) { $func.=" PUBLIC\n${begin}::\n"; }
else { $func.=" PRIVATE\n"; }
}

```

```

    push(@out,$func);
    $::stack=4;
}
sub ::function_end_B
{ my $func=shift;

    push(@out,"$nmdecor$func ENDP\n");
    $::stack=0;
    &::wipe_labels();
}

sub ::file_end
{ my $xmmheader=<<<__;
.686
.XMM
IF \@Version LT 800
XMMWORD STRUCT 16
DQ 2 dup (?)
XMMWORD ENDS
ENDIF
—
    if (grep {/\b[x]?mm[0-7]\b/i} @out) {
grep {s/.[3-7]86/$xmmheader/} @out;
    }

    push(@out,"$segment ENDS\n");

    if (grep {/\b${nmdecor}OPENSSL_ia32cap_P\b/i} @out)
    { my $comm=<<<__;
.bss SEGMENT 'BSS'
COMM ${nmdecor}OPENSSL_ia32cap_P:DWORD:4
.bss ENDS
—
# comment out OPENSSL_ia32cap_P declarations
grep {s/^(EXTERN\s+${nmdecor}OPENSSL_ia32cap_P)\^;$/} @out;
push (@out,$comm);
    }
    push (@out,$initseg) if ($initseg);
    push (@out,"END\n");
}

sub ::comment { foreach (@_) { push(@out,"t; $_\n"); } }

*::set_label_B = sub
{ my $l=shift; push(@out,$l.$l($l=~/\Q${::lbdecor}\E[0-9]{3}/?":\n":":\n")); };

sub ::external_label
{ foreach(@_)

```

```

    { push(@out, "EXTERN\t".&::LABEL($_,$nmdecor.$_).":NEAR\n"); }
}

sub ::public_label
{ push(@out, "PUBLIC\t".&::LABEL($_[0],$nmdecor.$_[0])."\n"); }

sub ::data_byte
{ push(@out, ("DB\t").join(', ', splice(@_, 0, 16))."\n") while(@_); }

sub ::data_short
{ push(@out, ("DW\t").join(', ', splice(@_, 0, 8))."\n") while(@_); }

sub ::data_word
{ push(@out, ("DD\t").join(', ', splice(@_, 0, 4))."\n") while(@_); }

sub ::align
{ push(@out, "ALIGN\t$_[0]\n"); }

sub ::picmeup
{ my($dst,$sym)=@_;
  &::lea($dst,&::DWP($sym));
}

sub ::initseg
{ my $f=$nmdecor.shift;

  $initseg.=<<<__;
.CRT$XCU SEGMENT DWORD PUBLIC 'DATA'
EXTERN $f:NEAR
DD $f
.CRT$XCU ENDS

—
}

sub ::dataseg
{ push(@out, "$segment\tENDS\n_DATA\tSEGMENT\n"); $segment="_DATA"; }

sub ::safeseh
{ my $nm=shift;
  push(@out, "IF \@Version GE 710\n");
  push(@out, ".SAFESEH ".&::LABEL($nm,$nmdecor.$nm)."\n");
  push(@out, "ENDIF\n");
}

1;

```

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```
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* crypto/aes/asm/aes_gcm-octeon.c - Cavium Octeon specific hardware assist  
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```

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/ciscossl-cvmx.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/octeon-model.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/ciscossl-cvmx-asm.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/ciscossl-cvmx-platform.h

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7.2a.202104051307/crypto/bn/asm/alpha-mont.pl  
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-  
7.2a.202104051307/crypto/bn/asm/via-mont.pl  
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-  
7.2a.202104051307/crypto/bn/asm/ppc-mont.pl
```

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```

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*  
* Originally written by Shay Gueron (1, 2), and Vlad Krasnov (1)  
* (1) Intel Corporation, Israel Development Center, Haifa, Israel  
* (2) University of Haifa, Israel  
*/
```

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```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-  
7.2a.202104051307/crypto/bn/rsaz_exp.c
```

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```

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```
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* kdf/kdf_snmp.c - Key Derivation Function for SNMP
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* February 2015
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*-----
*/
```

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```

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```

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7.2a.202104051307/fips/fips_post.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/cmac/fips_cmac_selftest.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/rand/fips_rand_lib.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/fips_utl.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/kdf/fips_kdfkb_selftest.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/fips_auth.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/fips.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/dsa/fips_dsa_selftest.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/fips.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/hmac/fips_hmac_selftest.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/fips_locl.h

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7.2a.202104051307/include/openssl/ui.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
7.2a.202104051307/crypto/ui/ui_compat.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
7.2a.202104051307/crypto/ui/ui.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
7.2a.202104051307/crypto/ui/ui_locl.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/kdf/kdferr.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/rsaerr.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/evperr.h
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/kdferr.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/bnerr.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/asn1/asn1err.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/evp/evperr.h
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/dh/dherr.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/dherr.h
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/ec/ecerr.h

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* fips/rsa/fips_rsa2gtest.c - RSA2 Key Generation algorithm processing
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* July 2013 Barry Fussell
*
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*-----
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/rsa/fips_rsa2gtest.c

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```
/* -----  
* crypto/aes/asm/aes_ctr-octeon.c - Cavium Octeon specific hardware assist  
* functionality that is to reside within the FIPS canister.  
*  
* January 2013  
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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/fips/rand/fips_drbg_rand.c
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* crypto/des/asm/cbc_enc-octeon.c - Cavium Octeon specific hardware assist

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/* -----
```

```
* crypto/aes/asm/aes_xts-octeon.c - Cavium Octeon specific hardware assist
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```
* functionality that is to reside within the FIPS canister.
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* kdf/kdf_tls.c - Key Derivation Function for TLS

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* kdf/kdf_srtp.c - Key Derivation Function for SRTP

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```

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```

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7.2a.202104051307/fips/rand/fips_drbg_selftest.h

```

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```

/* -----
* fips/fips_kdf_selftest.c - Power-on selftests for all supported
* KDFs.
*
* Feb, 2021
*
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* -----
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/*-----

* fips/kdf/fips_kwvs.c - Key Wrap vector tests

*

* February 2015

*

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*-----

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/fips/kdf/fips_kwvs.c

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```
7.2a.202104051307/include/internal/cryptlib_int.h
* /opt/cola/permits/1337210439_1687523530.3818/0/cisccssl-fom-7-2a-202104051307-tar-gz/cisccssl-fom-
7.2a.202104051307/include/openssl/kdf.h
* /opt/cola/permits/1337210439_1687523530.3818/0/cisccssl-fom-7-2a-202104051307-tar-gz/cisccssl-fom-
7.2a.202104051307/crypto/kdf/kdf.h
* /opt/cola/permits/1337210439_1687523530.3818/0/cisccssl-fom-7-2a-202104051307-tar-gz/cisccssl-fom-
7.2a.202104051307/crypto/include/internal/cryptlib_int.h
* /opt/cola/permits/1337210439_1687523530.3818/0/cisccssl-fom-7-2a-202104051307-tar-gz/cisccssl-fom-
7.2a.202104051307/crypto/cryptlib_int.h
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7.2a.202104051307/crypto/bn/asm/sparcv9a-mont.pl
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7.2a.202104051307/crypto/modes/asm/ghash-x86_64.pl
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```

```
#
# =====
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# =====
#
# This module implements support for AES instructions as per PowerISA
```

```

# specification version 2.07, first implemented by POWER8 processor.
# The module is endian-agnostic in sense that it supports both big-
# and little-endian cases. Data alignment in parallelizable modes is
# handled with VSX loads and stores, which implies MSR.VSX flag being
# set. It should also be noted that ISA specification doesn't prohibit
# alignment exceptions for these instructions on page boundaries.
# Initially alignment was handled in pure AltiVec/VMX way [when data
# is aligned programmatically, which in turn guarantees exception-
# free execution], but it turned to hamper performance when vcipher
# instructions are interleaved. It's reckoned that eventual
# misalignment penalties at page boundaries are in average lower
# than additional overhead in pure AltiVec approach.
#
# May 2016
#
# Add XTS subroutine, 9x on little- and 12x improvement on big-endian
# systems were measured.
#
#####
# Current large-block performance in cycles per byte processed with
# 128-bit key (less is better).
#
# CBC en-/decrypt CTR XTS
# POWER8[le] 3.96/0.72 0.74 1.1
# POWER8[be] 3.75/0.65 0.66 1.0
# POWER9[le] 4.02/0.86 0.84 1.05
# POWER9[be] 3.99/0.78 0.79 0.97

$flavour = shift;

if ($flavour =~ /64/) {
    $SIZE_T = 8;
    $LRSIZE = 2*$SIZE_T;
    $STU = "stdu";
    $POP = "ld";
    $PUSH = "std";
    $UCMP = "cmpld";
    $SHL = "sldi";
} elsif ($flavour =~ /32/) {
    $SIZE_T = 4;
    $LRSIZE = $SIZE_T;
    $STU = "stwu";
    $POP = "lwz";
    $PUSH = "stw";
    $UCMP = "cmplw";
    $SHL = "slwi";
} else { die "nonsense $flavour"; }

```

```

SLITTLE_ENDIAN = ($flavour =~ /le$/) ? $SIZE_T : 0;

$0 =~ m/(.*[\\])(^\\)+$/; $dir=$1;
( $xlate="${dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="${dir}../perlasm/ppc-xlate.pl" and -f $xlate ) or
die "can't locate ppc-xlate.pl";

open STDOUT,"|^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=8*$SIZE_T;
$prefix="aes_p8";

$sp="r1";
$svsave="r12";

#####
{{{ # Key setup procedures    #
my ($inp,$bits,$out,$ptr,$cnt,$rounds)=map("r$_",(3..8));
my ($zero,$in0,$in1,$key,$rcon,$mask,$tmp)=map("v$_",(0..6));
my ($stage,$outperm,$outmask,$outhead,$outtail)=map("v$_",(7..11));

$code.=<<___.
.machine "any"

.text

.align 7
rcon:
.long 0x01000000, 0x01000000, 0x01000000, 0x01000000 ?rev
.long 0x1b000000, 0x1b000000, 0x1b000000, 0x1b000000 ?rev
.long 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c, 0x0d0e0f0c ?rev
.long 0,0,0,0    ?asis
Lconsts:
mflr r0
bcl 20,31,,$+4
mflr $ptr #vvvvv "distance between . and rcon
addi $ptr,$ptr,-0x48
mtr r0
blr
.long 0
.byte 0,12,0x14,0,0,0,0
.asciz "AES for PowerISA 2.07, CRYPTOGRAMS by <appro\@openssl.org>"

.globl ${prefix}_set_encrypt_key
.align 5
${prefix}_set_encrypt_key:
Lset_encrypt_key:
mflr r11

```

```

$PUSH r11,$LRSAVE($sp)

li $ptr,-1
${UCMP}i $inp,0
beq- Lenc_key_abort # if ($inp==0) return -1;
${UCMP}i $out,0
beq- Lenc_key_abort # if ($out==0) return -1;
li $ptr,-2
cmpwi $bits,128
blt- Lenc_key_abort
cmpwi $bits,256
bgt- Lenc_key_abort
andi. r0,$bits,0x3f
bne- Lenc_key_abort

lis r0,0xffff0
mfspr $vrsave,256
mtspr 256,r0

bl Lconsts
mtlr r11

neg r9,$inp
lvx $in0,0,$inp
addi $inp,$inp,15 # 15 is not typo
lvsr $key,0,r9 # borrow $key
li r8,0x20
cmpwi $bits,192
lvx $in1,0,$inp
le?vspltisb $mask,0x0f # borrow $mask
lvx $rcon,0,$ptr
le?vxor $key,$key,$mask # adjust for byte swap
lvx $mask,r8,$ptr
addi $ptr,$ptr,0x10
vperm $in0,$in0,$in1,$key # align [and byte swap in LE]
li $cnt,8
vxor $zero,$zero,$zero
mtctr $cnt

?lvsr $outperm,0,$out
vspltisb $outmask,-1
lvx $outhead,0,$out
?vperm $outmask,$zero,$outmask,$outperm

blt Loop128
addi $inp,$inp,8
beq L192
addi $inp,$inp,8

```

b L256

```
.align 4
Loop128:
vperm $key,$in0,$in0,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vadduwm $rcon,$rcon,$rcon
vxor $in0,$in0,$key
bdnz Loop128

lvx $rcon,0,$ptr # last two round keys

vperm $key,$in0,$in0,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vadduwm $rcon,$rcon,$rcon
vxor $in0,$in0,$key

vperm $key,$in0,$in0,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
```

```

addi $out,$out,16

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vxor $in0,$in0,$key
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail
stvx $stage,0,$out

addi $inp,$out,15 # 15 is not typo
addi $out,$out,0x50

li $rounds,10
b Ldone

.align 4
L192:
lvx $tmp,0,$inp
li $cnt,4
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail
stvx $stage,0,$out
addi $out,$out,16
vperm $in1,$in1,$tmp,$key # align [and byte swap in LE]
vspltisb $key,8 # borrow $key
mtctr $cnt
vsububm $mask,$mask,$key # adjust the mask

Loop192:
vperm $key,$in1,$in1,$mask # roate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vcipherlast $key,$key,$rcon

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp

vsldoi $stage,$zero,$in1,8
vspltw $tmp,$in0,3
vxor $tmp,$tmp,$in1
vsldoi $in1,$zero,$in1,12 # >>32

```



```

vadduwm $rcon,$rcon,$rcon
vxor $in1,$in1,$tmp
vxor $in0,$in0,$key
vxor $in1,$in1,$key
vsldoi $stage,$stage,$in0,8

vperm $key,$in1,$in1,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$stage,$stage,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

vsldoi $stage,$in0,$in1,8
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vperm $outtail,$stage,$stage,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
stvx $stage,0,$out
addi $out,$out,16

vspltw $tmp,$in0,3
vxor $tmp,$tmp,$in1
vsldoi $in1,$zero,$in1,12 # >>32
vadduwm $rcon,$rcon,$rcon
vxor $in1,$in1,$tmp
vxor $in0,$in0,$key
vxor $in1,$in1,$key
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$southead,$outtail,$outmask
vmr $southead,$outtail
stvx $stage,0,$out
addi $inp,$out,15 # 15 is not typo
addi $out,$out,16
bdnz Loop192

li $rounds,12
addi $out,$out,0x20
b Ldone

.align 4
L256:

```

```

lvx $tmp,0,$inp
li $cnt,7
li $rounds,14
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail
stvx $stage,0,$out
addi $out,$out,16
vperm $in1,$in1,$tmp,$key # align [and byte swap in LE]
mtctr $cnt

```

Loop256:

```

vperm $key,$in1,$in1,$mask # rotate-n-splat
vsldoi $tmp,$zero,$in0,12 # >>32
vperm $outtail,$in1,$in1,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail
vcipherlast $key,$key,$rcon
stvx $stage,0,$out
addi $out,$out,16

```

```

vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in0,$in0,$tmp
vadduwm $rcon,$rcon,$rcon
vxor $in0,$in0,$key
vperm $outtail,$in0,$in0,$outperm # rotate
vsel $stage,$outhead,$outtail,$outmask
vmr $outhead,$outtail
stvx $stage,0,$out
addi $inp,$out,15 # 15 is not typo
addi $out,$out,16
bdz Ldone

```

```

vspltw $key,$in0,3 # just splat
vsldoi $tmp,$zero,$in1,12 # >>32
vsbox $key,$key

```

```

vxor $in1,$in1,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in1,$in1,$tmp
vsldoi $tmp,$zero,$tmp,12 # >>32
vxor $in1,$in1,$tmp

```

```

vxor $in1,$in1,$key
b Loop256

```

```

.align 4
Ldone:
lvx $in1,0,$inp # redundant in aligned case
vsel $in1,$outhead,$in1,$outmask
stvx $in1,0,$inp
li $ptr,0
mtspr 256,$vrsave
stw $rounds,0($out)

Lenc_key_abort:
mr r3,$ptr
blr
.long 0
.byte 0,12,0x14,1,0,0,3,0
.long 0
.size ${prefix}_set_encrypt_key,-.${prefix}_set_encrypt_key

.globl ${prefix}_set_decrypt_key
.align 5
.${prefix}_set_decrypt_key:
$STU $sp,-$FRAME($sp)
mflr r10
$PUSH r10,$FRAME+$LRSERVE($sp)
bl Lset_encrypt_key
mtlr r10

cmpwi r3,0
bne- Ldec_key_abort

slwi $cnt,$rounds,4
subi $inp,$out,240 # first round key
srwi $rounds,$rounds,1
add $out,$inp,$cnt # last round key
mtctr $rounds

Ldeckey:
lwz r0, 0($inp)
lwz r6, 4($inp)
lwz r7, 8($inp)
lwz r8, 12($inp)
addi $inp,$inp,16
lwz r9, 0($out)
lwz r10,4($out)
lwz r11,8($out)
lwz r12,12($out)
stw r0, 0($out)
stw r6, 4($out)

```

```

stw r7, 8($out)
stw r8, 12($out)
subi $out,$out,16
stw r9, -16($inp)
stw r10,-12($inp)
stw r11,-8($inp)
stw r12,-4($inp)
bdnz Ldeckey

xor r3,r3,r3 # return value
Ldec_key_abort:
addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,4,1,0x80,0,3,0
.long 0
.size ${prefix}_set_decrypt_key,-.${prefix}_set_decrypt_key
___
}}
#####
{{{ # Single block en- and decrypt procedures #
sub gen_block () {
my $dir = shift;
my $n = $dir eq "de" ? "n" : "";
my ($inp,$out,$key,$rounds,$idx)=map("r$_",(3..7));

$code.=<<___;
.globl ${prefix}_${dir}crypt
.align 5
.${prefix}_${dir}crypt:
lwz $rounds,240($key)
lis r0,0xfc00
mfspr $vrsave,256
li $idx,15 # 15 is not typo
mtspr 256,r0

lvx v0,0,$inp
neg r11,$out
lvx v1,$idx,$inp
lvsl v2,0,$inp # inpperm
le?vspltisb v4,0x0f
?lvsl v3,0,r11 # outperm
le?vxor v2,v2,v4
li $idx,16
vperm v0,v0,v1,v2 # align [and byte swap in LE]
lvx v1,0,$key
?lvsl v5,0,$key # keyperm
srwi $rounds,$rounds,1

```

```

lvx v2,$idx,$key
addi $idx,$idx,16
subi $rounds,$rounds,1
?vperm v1,v1,v2,v5 # align round key

vxor v0,v0,v1
lvx v1,$idx,$key
addi $idx,$idx,16
mtctr $rounds

Loop_${dir}c:
?vperm v2,v2,v1,v5
v${n}cipher v0,v0,v2
lvx v2,$idx,$key
addi $idx,$idx,16
?vperm v1,v1,v2,v5
v${n}cipher v0,v0,v1
lvx v1,$idx,$key
addi $idx,$idx,16
bdnz Loop_${dir}c

?vperm v2,v2,v1,v5
v${n}cipher v0,v0,v2
lvx v2,$idx,$key
?vperm v1,v1,v2,v5
v${n}cipherlast v0,v0,v1

vspltisb v2,-1
vxor v1,v1,v1
li $idx,15 # 15 is not typo
?vperm v2,v1,v2,v3 # outmask
le?vxor v3,v3,v4
lvx v1,0,$out # outhead
vperm v0,v0,v0,v3 # rotate [and byte swap in LE]
vsel v1,v1,v0,v2
lvx v4,$idx,$out
stvx v1,0,$out
vsel v0,v0,v4,v2
stvx v0,$idx,$out

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,3,0
.long 0
.size ${prefix}_${dir}crypt,-.${prefix}_${dir}crypt
_____
}

```

```

&gen_block("en");
&gen_block("de");
}}}
#####
{{{ # CBC en- and decrypt procedures #
my ($inp,$out,$len,$key,$ivp,$enc,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)= map("v$_",(0..3));
my ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm)=
    map("v$_",(4..10));
$code.=<<__;
.globl .${prefix}_cbc_encrypt
.align 5
.${prefix}_cbc_encrypt:
    ${UCMP}i $len,16
    btlr-

    cmpwi $enc,0 # test direction
    lis r0,0xffe0
    mfspr $vrsave,256
    mtspr 256,r0

    li $idx,15
    vxor $rndkey0,$rndkey0,$rndkey0
    le?vspltisb $tmp,0x0f

    lvx $ivec,0,$ivp # load [unaligned] iv
    lvsl $inpperm,0,$ivp
    lvx $inptail,$idx,$ivp
    le?vxor $inpperm,$inpperm,$tmp
    vperm $ivec,$ivec,$inptail,$inpperm

    neg r11,$inp
    ?lvsl $keyperm,0,$key # prepare for unaligned key
    lwz $rounds,240($key)

    lvsr $inpperm,0,r11 # prepare for unaligned load
    lvx $inptail,0,$inp
    addi $inp,$inp,15 # 15 is not typo
    le?vxor $inpperm,$inpperm,$tmp

    ?lvsr $outperm,0,$out # prepare for unaligned store
    vspltisb $outmask,-1
    lvx $outhead,0,$out
    ?vperm $outmask,$rndkey0,$outmask,$outperm
    le?vxor $outperm,$outperm,$tmp

    srwi $rounds,$rounds,1
    li $idx,16

```

```

subi $rounds,$rounds,1
beq Lcbc_dec

Lcbc_enc:
vmr $inout,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
mtctr $rounds
subi $len,$len,16 # len-=16

lvx $rndkey0,0,$key
vperm $inout,$inout,$inptail,$inpperm
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
vxor $inout,$inout,$ivec

Loop_cbc_enc:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
bdnz Loop_cbc_enc

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast $ivec,$inout,$rndkey0
${UCMP}i $len,16

vperm $tmp,$ivec,$ivec,$outperm
vsel $inout,$southead,$tmp,$outmask
vmr $southead,$tmp
stvx $inout,0,$out
addi $out,$out,16
bge Lcbc_enc

b Lcbc_done

```

```

.align 4
Lcbc_dec:
    ${UCMP}i $len,128
    bge _aesp8_cbc_decrypt8x
    vmr $tmp,$sintail
    lvx $sintail,0,$sinp
    addi $sinp,$sinp,16
    mtctr $rounds
    subi $len,$len,16 # len-=16

    lvx $rndkey0,0,$key
    vperm $tmp,$tmp,$sintail,$sinpperm
    lvx $rndkey1,$sidx,$key
    addi $sidx,$sidx,16
    ?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
    vxor $sinout,$tmp,$rndkey0
    lvx $rndkey0,$sidx,$key
    addi $sidx,$sidx,16

Loop_cbc_dec:
    ?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
    vncipher $sinout,$sinout,$rndkey1
    lvx $rndkey1,$sidx,$key
    addi $sidx,$sidx,16
    ?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
    vncipher $sinout,$sinout,$rndkey0
    lvx $rndkey0,$sidx,$key
    addi $sidx,$sidx,16
    bdnz Loop_cbc_dec

    ?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
    vncipher $sinout,$sinout,$rndkey1
    lvx $rndkey1,$sidx,$key
    li $sidx,16
    ?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
    vncipherlast $sinout,$sinout,$rndkey0
    ${UCMP}i $len,16

    vxor $sinout,$sinout,$ivec
    vmr $ivec,$tmp
    vperm $tmp,$sinout,$sinout,$soutperm
    vsel $sinout,$southead,$tmp,$soutmask
    vmr $southead,$tmp
    stvx $sinout,0,$sout
    addi $sout,$sout,16
    bge Lcbc_dec

Lcbc_done:

```



```

addi $out,$out,-1
lvx $inout,0,$out # redundant in aligned case
vsel $inout,$outhead,$inout,$outmask
stvx $inout,0,$out

neg $enc,$ivp # write [unaligned] iv
li $idx,15 # 15 is not typo
vxor $rndkey0,$rndkey0,$rndkey0
vspltisb $outmask,-1
le?vspltisb $tmp,0x0f
?lvs1 $outperm,0,$enc
?vperm $outmask,$rndkey0,$outmask,$outperm
le?vxor $outperm,$outperm,$tmp
lvx $outhead,0,$ivp
vperm $ivec,$ivec,$ivec,$outperm
vsel $inout,$outhead,$ivec,$outmask
lvx $inptail,$idx,$ivp
stvx $inout,0,$ivp
vsel $inout,$ivec,$inptail,$outmask
stvx $inout,$idx,$ivp

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,6,0
.long 0
—
#####
{{ # Optimized CBC decrypt procedure #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
  $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10..13));
my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(14..21));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
  # v26-v31 last 6 round keys
my ($tmp,$keyperm)=$in3,$in4; # aliases with "caller", redundant assignment

$code.=<<__;
.align 5
_esp8_cbc_decrypt8x:
$STU $sp,-`($FRAME+21*16+6*SSIZE_T)`($sp)
li r10,`$FRAME+8*16+15`
li r11,`$FRAME+8*16+31`
stvx v20,r10,$sp # ABI says so
addi r10,r10,32
stvx v21,r11,$sp
addi r11,r11,32

```

```

stvx v22,r10,$sp
addi r10,r10,32
stvx v23,r11,$sp
addi r11,r11,32
stvx v24,r10,$sp
addi r10,r10,32
stvx v25,r11,$sp
addi r11,r11,32
stvx v26,r10,$sp
addi r10,r10,32
stvx v27,r11,$sp
addi r11,r11,32
stvx v28,r10,$sp
addi r10,r10,32
stvx v29,r11,$sp
addi r11,r11,32
stvx v30,r10,$sp
stvx v31,r11,$sp
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0

subi $rounds,$rounds,3 # -4 in total
subi $len,$len,128 # bias

lvx $rndkey0,$x00,$key # load key schedule
lvx v30,$x10,$key
addi $key,$key,0x20
lvx v31,$x00,$key
?vperm $rndkey0,$rndkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr $rounds

Load_cbc_dec_key:
?vperm v24,v30,v31,$keyperm

```

```

lvx v30,$x10,$key
addi $key,$key,0x20
stvx v24,$x00,$key_ # off-load round[1]
?vperm v25,v31,v30,$keyperm
lvx v31,$x00,$key
stvx v25,$x10,$key_ # off-load round[2]
addi $key_,$key_,0x20
bdnz Load_cbc_dec_key

lvx v26,$x10,$key
?vperm v24,v30,v31,$keyperm
lvx v27,$x20,$key
stvx v24,$x00,$key_ # off-load round[3]
?vperm v25,v31,v26,$keyperm
lvx v28,$x30,$key
stvx v25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm v26,v26,v27,$keyperm
lvx v29,$x40,$key
?vperm v27,v27,v28,$keyperm
lvx v30,$x50,$key
?vperm v28,v28,v29,$keyperm
lvx v31,$x60,$key
?vperm v29,v29,v30,$keyperm
lvx $out0,$x70,$key # borrow $out0
?vperm v30,v30,v31,$keyperm
lvx v24,$x00,$key_ # pre-load round[1]
?vperm v31,v31,$out0,$keyperm
lvx v25,$x10,$key_ # pre-load round[2]

#lvx $inptail,0,$inp # "caller" already did this
#addi $inp,$inp,15 # 15 is not typo
subi $inp,$inp,15 # undo "caller"

le?li $idx,8
lvx_u $in0,$x00,$inp # load first 8 "words"
le?lvsl $inpperm,0,$idx
le?vspltisb $tmp,0x0f
lvx_u $in1,$x10,$inp
le?vxor $inpperm,$inpperm,$tmp # transform for lvx_u/stvx_u
lvx_u $in2,$x20,$inp
le?vperm $in0,$in0,$in0,$inpperm
lvx_u $in3,$x30,$inp
le?vperm $in1,$in1,$in1,$inpperm
lvx_u $in4,$x40,$inp
le?vperm $in2,$in2,$in2,$inpperm
vxor $out0,$in0,$rndkey0
lvx_u $in5,$x50,$inp

```

```

le?vperm $in3,$in3,$in3,$inpperm
vxor $out1,$in1,$rndkey0
lvx_u $in6,$x60,$inp
le?vperm $in4,$in4,$in4,$inpperm
vxor $out2,$in2,$rndkey0
lvx_u $in7,$x70,$inp
addi $inp,$inp,0x80
le?vperm $in5,$in5,$in5,$inpperm
vxor $out3,$in3,$rndkey0
le?vperm $in6,$in6,$in6,$inpperm
vxor $out4,$in4,$rndkey0
le?vperm $in7,$in7,$in7,$inpperm
vxor $out5,$in5,$rndkey0
vxor $out6,$in6,$rndkey0
vxor $out7,$in7,$rndkey0

```

```

mtctr $rounds
b Loop_cbc_dec8x
.align 5
Loop_cbc_dec8x:
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

```

```

vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_cbc_dec8x

```

```

subic $len,$len,128 # $len-=128
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24

```

```
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24
```

```
subfe. r0,r0,r0 # borrow?-1:0
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
vncipher $out6,$out6,v25
vncipher $out7,$out7,v25
```

```
and r0,r0,$len
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26
vncipher $out6,$out6,v26
vncipher $out7,$out7,v26
```

```
add $inp,$inp,r0 # $inp is adjusted in such
# way that at exit from the
# loop inX-in7 are loaded
# with last "words"
vncipher $out0,$out0,v27
vncipher $out1,$out1,v27
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27
vncipher $out6,$out6,v27
vncipher $out7,$out7,v27
```

```
addi $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
vncipher $out6,$out6,v28
vncipher $out7,$out7,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
```

```

vncipher $out0,$out0,v29
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
vncipher $out6,$out6,v29
vncipher $out7,$out7,v29
lvx v25,$x10,$key_ # re-pre-load round[2]

```

```

vncipher $out0,$out0,v30
vxor $ivec,$ivec,v31 # xor with last round key
vncipher $out1,$out1,v30
vxor $in0,$in0,v31
vncipher $out2,$out2,v30
vxor $in1,$in1,v31
vncipher $out3,$out3,v30
vxor $in2,$in2,v31
vncipher $out4,$out4,v30
vxor $in3,$in3,v31
vncipher $out5,$out5,v30
vxor $in4,$in4,v31
vncipher $out6,$out6,v30
vxor $in5,$in5,v31
vncipher $out7,$out7,v30
vxor $in6,$in6,v31

```

```

vncipherlast $out0,$out0,$ivec
vncipherlast $out1,$out1,$in0
lvx_u $in0,$x00,$inp # load next input block
vncipherlast $out2,$out2,$in1
lvx_u $in1,$x10,$inp
vncipherlast $out3,$out3,$in2
le?vperm $in0,$in0,$in0,$inpperm
lvx_u $in2,$x20,$inp
vncipherlast $out4,$out4,$in3
le?vperm $in1,$in1,$in1,$inpperm
lvx_u $in3,$x30,$inp
vncipherlast $out5,$out5,$in4
le?vperm $in2,$in2,$in2,$inpperm
lvx_u $in4,$x40,$inp
vncipherlast $out6,$out6,$in5
le?vperm $in3,$in3,$in3,$inpperm
lvx_u $in5,$x50,$inp
vncipherlast $out7,$out7,$in6
le?vperm $in4,$in4,$in4,$inpperm
lvx_u $in6,$x60,$inp
vmr $ivec,$in7

```

```

le?vperm $in5,$in5,$in5,$inpperm
lvx_u $in7,$x70,$inp
addi $inp,$inp,0x80

le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $in6,$in6,$in6,$inpperm
vxor $out0,$in0,$rndkey0
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $in7,$in7,$in7,$inpperm
vxor $out1,$in1,$rndkey0
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
vxor $out2,$in2,$rndkey0
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
vxor $out3,$in3,$rndkey0
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
vxor $out4,$in4,$rndkey0
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x50,$out
vxor $out5,$in5,$rndkey0
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x60,$out
vxor $out6,$in6,$rndkey0
stvx_u $out7,$x70,$out
addi $out,$out,0x80
vxor $out7,$in7,$rndkey0

mtctr $rounds
beq Loop_cbc_dec8x # did $len-=128 borrow?

addic $len,$len,128
beq Lcbc_dec8x_done
nop
nop

Loop_cbc_dec8x_tail: # up to 7 "words" tail...
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
vncipher $out6,$out6,v24
vncipher $out7,$out7,v24

```

```
lvx v24,$x20,$key_ # round[3]
```

```
addi $key_,$key_,0x20
```

```
vncipher $out1,$out1,v25
```

```
vncipher $out2,$out2,v25
```

```
vncipher $out3,$out3,v25
```

```
vncipher $out4,$out4,v25
```

```
vncipher $out5,$out5,v25
```

```
vncipher $out6,$out6,v25
```

```
vncipher $out7,$out7,v25
```

```
lvx v25,$x10,$key_ # round[4]
```

```
bdnz Loop_cbc_dec8x_tail
```

```
vncipher $out1,$out1,v24
```

```
vncipher $out2,$out2,v24
```

```
vncipher $out3,$out3,v24
```

```
vncipher $out4,$out4,v24
```

```
vncipher $out5,$out5,v24
```

```
vncipher $out6,$out6,v24
```

```
vncipher $out7,$out7,v24
```

```
vncipher $out1,$out1,v25
```

```
vncipher $out2,$out2,v25
```

```
vncipher $out3,$out3,v25
```

```
vncipher $out4,$out4,v25
```

```
vncipher $out5,$out5,v25
```

```
vncipher $out6,$out6,v25
```

```
vncipher $out7,$out7,v25
```

```
vncipher $out1,$out1,v26
```

```
vncipher $out2,$out2,v26
```

```
vncipher $out3,$out3,v26
```

```
vncipher $out4,$out4,v26
```

```
vncipher $out5,$out5,v26
```

```
vncipher $out6,$out6,v26
```

```
vncipher $out7,$out7,v26
```

```
vncipher $out1,$out1,v27
```

```
vncipher $out2,$out2,v27
```

```
vncipher $out3,$out3,v27
```

```
vncipher $out4,$out4,v27
```

```
vncipher $out5,$out5,v27
```

```
vncipher $out6,$out6,v27
```

```
vncipher $out7,$out7,v27
```

```
vncipher $out1,$out1,v28
```

```
vncipher $out2,$out2,v28
```

```
vncipher $out3,$out3,v28
```



```
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
vncipher $out6,$out6,v28
vncipher $out7,$out7,v28
```

```
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
vncipher $out6,$out6,v29
vncipher $out7,$out7,v29
```

```
vncipher $out1,$out1,v30
vxor $ivec,$ivec,v31 # last round key
vncipher $out2,$out2,v30
vxor $in1,$in1,v31
vncipher $out3,$out3,v30
vxor $in2,$in2,v31
vncipher $out4,$out4,v30
vxor $in3,$in3,v31
vncipher $out5,$out5,v30
vxor $in4,$in4,v31
vncipher $out6,$out6,v30
vxor $in5,$in5,v31
vncipher $out7,$out7,v30
vxor $in6,$in6,v31
```

```
cmplwi $len,32 # switch($len)
blt Lcbc_dec8x_one
nop
beq Lcbc_dec8x_two
cmplwi $len,64
blt Lcbc_dec8x_three
nop
beq Lcbc_dec8x_four
cmplwi $len,96
blt Lcbc_dec8x_five
nop
beq Lcbc_dec8x_six
```

Lcbc_dec8x_seven:

```
vncipherlast $out1,$out1,$ivec
vncipherlast $out2,$out2,$in1
vncipherlast $out3,$out3,$in2
vncipherlast $out4,$out4,$in3
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
```

```
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7
```

```
le?vperm $out1,$out1,$out1,$inpperm
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x00,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x10,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x20,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x30,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x40,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x50,$out
stvx_u $out7,$x60,$out
addi $out,$out,0x70
b Lcbc_dec8x_done
```

```
.align 5
```

```
Lcbc_dec8x_six:
```

```
vncipherlast $out2,$out2,$ivec
vncipherlast $out3,$out3,$in2
vncipherlast $out4,$out4,$in3
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7
```

```
le?vperm $out2,$out2,$out2,$inpperm
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x00,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x10,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x20,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x30,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x40,$out
stvx_u $out7,$x50,$out
addi $out,$out,0x60
b Lcbc_dec8x_done
```

```
.align 5
```

```
Lcbc_dec8x_five:
```

```
vncipherlast $out3,$out3,$ivec
```

```
vncipherlast $out4,$out4,$in3
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7
```

```
le?vperm $out3,$out3,$out3,$inpperm
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x00,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x10,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x20,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x30,$out
stvx_u $out7,$x40,$out
addi $out,$out,0x50
b Lcbc_dec8x_done
```

```
.align 5
Lcbc_dec8x_four:
vncipherlast $out4,$out4,$ivec
vncipherlast $out5,$out5,$in4
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7
```

```
le?vperm $out4,$out4,$out4,$inpperm
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x00,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x10,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x20,$out
stvx_u $out7,$x30,$out
addi $out,$out,0x40
b Lcbc_dec8x_done
```

```
.align 5
Lcbc_dec8x_three:
vncipherlast $out5,$out5,$ivec
vncipherlast $out6,$out6,$in5
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7
```

```
le?vperm $out5,$out5,$out5,$inpperm
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x00,$out
```

```
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x10,$out
stvx_u $out7,$x20,$out
addi $out,$out,0x30
b Lcbc_dec8x_done
```

```
.align 5
```

```
Lcbc_dec8x_two:
```

```
vncipherlast $out6,$out6,$ivec
vncipherlast $out7,$out7,$in6
vmr $ivec,$in7
```

```
le?vperm $out6,$out6,$out6,$inpperm
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x00,$out
stvx_u $out7,$x10,$out
addi $out,$out,0x20
b Lcbc_dec8x_done
```

```
.align 5
```

```
Lcbc_dec8x_one:
```

```
vncipherlast $out7,$out7,$ivec
vmr $ivec,$in7
```

```
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out7,0,$out
addi $out,$out,0x10
```

```
Lcbc_dec8x_done:
```

```
le?vperm $ivec,$ivec,$ivec,$inpperm
stvx_u $ivec,0,$ivp # write [unaligned] iv
```

```
li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx $inpperm,r10,$sp # wipe copies of round keys
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
stvx $inpperm,r11,$sp
addi r11,r11,32
stvx $inpperm,r10,$sp
addi r10,r10,32
```

```

stvx $inpperm,r11,$sp
addi r11,r11,32

mtspr 256,$vrsave
lvx v20,r10,$sp # ABI says so
addi r10,r10,32
lvx v21,r11,$sp
addi r11,r11,32
lvx v22,r10,$sp
addi r10,r10,32
lvx v23,r11,$sp
addi r11,r11,32
lvx v24,r10,$sp
addi r10,r10,32
lvx v25,r11,$sp
addi r11,r11,32
lvx v26,r10,$sp
addi r10,r10,32
lvx v27,r11,$sp
addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size ${prefix}_cbc_encrypt,-.${prefix}_cbc_encrypt
_____
}} }}

#####
{{{ # CTR procedure[s] #
my ($inp,$out,$len,$key,$ivp,$x10,$rounds,$idx)=map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout,$tmp)= map("v$_",(0..3));
my ($ivec,$inptail,$inpperm,$outhead,$outperm,$outmask,$keyperm,$sone)=
    map("v$_",(4..11));
my $dat=$tmp;

```

```

$code.=<<__;  

.globl .${prefix}_ctr32_encrypt_blocks  

.align 5  

.${prefix}_ctr32_encrypt_blocks:  

    ${UCMP}i $len,1  

    btlr-  

    lis r0,0xffff0  

    mfspr $vrsave,256  

    mtspr 256,r0  

    li $idx,15  

    vxor $rndkey0,$rndkey0,$rndkey0  

    le?vspltisb $tmp,0x0f  

    lvx $ivec,0,$ivp # load [unaligned] iv  

    lvsl $inpperm,0,$ivp  

    lvx $inptail,$idx,$ivp  

    vspltisb $one,1  

    le?vxor $inpperm,$inpperm,$tmp  

    vperm $ivec,$ivec,$inptail,$inpperm  

    vsldoi $one,$rndkey0,$one,1  

    neg r11,$inp  

    ?lvsl $keyperm,0,$key # prepare for unaligned key  

    lwz $rounds,240($key)  

    lvsr $inpperm,0,r11 # prepare for unaligned load  

    lvx $inptail,0,$inp  

    addi $inp,$inp,15 # 15 is not typo  

    le?vxor $inpperm,$inpperm,$tmp  

    srwi $rounds,$rounds,1  

    li $idx,16  

    subi $rounds,$rounds,1  

    ${UCMP}i $len,8  

    bge _aesp8_ctr32_encrypt8x  

    ?lvsr $outperm,0,$out # prepare for unaligned store  

    vspltisb $outmask,-1  

    lvx $outhead,0,$out  

    ?vperm $outmask,$rndkey0,$outmask,$outperm  

    le?vxor $outperm,$outperm,$tmp  

    lvx $rndkey0,0,$key  

    mtctr $rounds

```

```

lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$ivec,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
b Loop_ctr32_enc

```

```
.align 5
```

```
Loop_ctr32_enc:
```

```

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
bdnz Loop_ctr32_enc

```

```

vadduwm $ivec,$ivec,$one
vmr $dat,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
subic. $len,$len,1 # blocks--

```

```

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key
vperm $dat,$dat,$inptail,$inpperm
li $idx,16
?vperm $rndkey1,$rndkey0,$rndkey1,$keyperm
lvx $rndkey0,0,$key
vxor $dat,$dat,$rndkey1 # last round key
vcipherlast $inout,$inout,$dat

```

```

lvx $rndkey1,$idx,$key
addi $idx,$idx,16
vperm $inout,$inout,$inout,$outperm
vsel $dat,$southead,$inout,$outmask
mtctr $rounds
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vmr $southead,$inout
vxor $inout,$ivec,$rndkey0
lvx $rndkey0,$idx,$key
addi $idx,$idx,16
stvx $dat,0,$out
addi $out,$out,16

```

```

bne Loop_ctr32_enc

addi $out,$out,-1
lvx $inout,0,$out # redundant in aligned case
vsel $inout,$outhead,$inout,$outmask
stvx $inout,0,$out

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,6,0
.long 0

-----
#####
{{ # Optimized CTR procedure #
my $key_="r11";
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,8,26..31));
  $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5, $in6, $in7 )=map("v$_",(0..3,10,12..14));
my ($out0,$out1,$out2,$out3,$out4,$out5,$out6,$out7)=map("v$_",(15..22));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
  # v26-v31 last 6 round keys
my ($tmp,$keyperm)=$(in3,$in4); # aliases with "caller", redundant assignment
my ($two,$three,$four)=$(outhead,$outperm,$outmask);

$code.=<<____;
.align 5
_esp8_ctr32_encrypt8x:
$STU $sp,-($FRAME+21*16+6*$SIZE_T)`($sp)
li r10,`$FRAME+8*16+15`
li r11,`$FRAME+8*16+31`
stvx v20,r10,$sp # ABI says so
addi r10,r10,32
stvx v21,r11,$sp
addi r11,r11,32
stvx v22,r10,$sp
addi r10,r10,32
stvx v23,r11,$sp
addi r11,r11,32
stvx v24,r10,$sp
addi r10,r10,32
stvx v25,r11,$sp
addi r11,r11,32
stvx v26,r10,$sp
addi r10,r10,32
stvx v27,r11,$sp
addi r11,r11,32
stvx v28,r10,$sp

```



```

addi r10,r10,32
stvx v29,r11,$sp
addi r11,r11,32
stvx v30,r10,$sp
stvx v31,r11,$sp
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0

```

```

subi $rounds,$rounds,3 # -4 in total

```

```

lvx $rndkey0,$x00,$key # load key schedule
lvx v30,$x10,$key
addi $key,$key,0x20
lvx v31,$x00,$key
?vperm $rndkey0,$rndkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr $rounds

```

Load_ctr32_enc_key:

```

?vperm v24,v30,v31,$keyperm
lvx v30,$x10,$key
addi $key,$key,0x20
stvx v24,$x00,$key_ # off-load round[1]
?vperm v25,v31,v30,$keyperm
lvx v31,$x00,$key
stvx v25,$x10,$key_ # off-load round[2]
addi $key_,$key_,0x20
bdnz Load_ctr32_enc_key

```

```

lvx v26,$x10,$key
?vperm v24,v30,v31,$keyperm
lvx v27,$x20,$key
stvx v24,$x00,$key_ # off-load round[3]
?vperm v25,v31,v26,$keyperm

```

```

lvx v28,$x30,$key
stvx v25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm v26,v26,v27,$keyperm
lvx v29,$x40,$key
?vperm v27,v27,v28,$keyperm
lvx v30,$x50,$key
?vperm v28,v28,v29,$keyperm
lvx v31,$x60,$key
?vperm v29,v29,v30,$keyperm
lvx $out0,$x70,$key # borrow $out0
?vperm v30,v30,v31,$keyperm
lvx v24,$x00,$key_ # pre-load round[1]
?vperm v31,v31,$out0,$keyperm
lvx v25,$x10,$key_ # pre-load round[2]

vadduwm $two,$one,$one
subi $inp,$inp,15 # undo "caller"
$SHL $len,$len,4

vadduwm $out1,$ivec,$one # counter values ...
vadduwm $out2,$ivec,$two
vxor $out0,$ivec,$rndkey0 # ... xored with rndkey[0]
le?li $idx,8
vadduwm $out3,$out1,$two
vxor $out1,$out1,$rndkey0
le?lvsl $inpperm,0,$idx
vadduwm $out4,$out2,$two
vxor $out2,$out2,$rndkey0
le?vspltisb $tmp,0x0f
vadduwm $out5,$out3,$two
vxor $out3,$out3,$rndkey0
le?vxor $inpperm,$inpperm,$tmp # transform for lvx_u/stvx_u
vadduwm $out6,$out4,$two
vxor $out4,$out4,$rndkey0
vadduwm $out7,$out5,$two
vxor $out5,$out5,$rndkey0
vadduwm $ivec,$out6,$two # next counter value
vxor $out6,$out6,$rndkey0
vxor $out7,$out7,$rndkey0

mtctr $rounds
b Loop_ctr32_enc8x
.align 5
Loop_ctr32_enc8x:
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24

```

```

vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
vcipher $out5,$out5,v24
vcipher $out6,$out6,v24
vcipher $out7,$out7,v24
Loop_ctr32_enc8x_middle:
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
vcipher $out5,$out5,v25
vcipher $out6,$out6,v25
vcipher $out7,$out7,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_ctr32_enc8x

subic r11,$len,256 # $len-256, borrow $key_
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
vcipher $out5,$out5,v24
vcipher $out6,$out6,v24
vcipher $out7,$out7,v24

subfe r0,r0,r0 # borrow?-1:0
vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
vcipher $out5,$out5,v25
vcipher $out6,$out6,v25
vcipher $out7,$out7,v25

and r0,r0,r11
addi $key_,$sp,$FRAME+15 # rewind $key_
vcipher $out0,$out0,v26
vcipher $out1,$out1,v26
vcipher $out2,$out2,v26
vcipher $out3,$out3,v26
vcipher $out4,$out4,v26
vcipher $out5,$out5,v26

```

```
vcipher $out6,$out6,v26
vcipher $out7,$out7,v26
lvx v24,$x00,$key_ # re-pre-load round[1]
```

```
subic $len,$len,129 # $len-=129
vcipher $out0,$out0,v27
addi $len,$len,1 # $len-=128 really
vcipher $out1,$out1,v27
vcipher $out2,$out2,v27
vcipher $out3,$out3,v27
vcipher $out4,$out4,v27
vcipher $out5,$out5,v27
vcipher $out6,$out6,v27
vcipher $out7,$out7,v27
lvx v25,$x10,$key_ # re-pre-load round[2]
```

```
vcipher $out0,$out0,v28
lvx_u $in0,$x00,$inp # load input
vcipher $out1,$out1,v28
lvx_u $in1,$x10,$inp
vcipher $out2,$out2,v28
lvx_u $in2,$x20,$inp
vcipher $out3,$out3,v28
lvx_u $in3,$x30,$inp
vcipher $out4,$out4,v28
lvx_u $in4,$x40,$inp
vcipher $out5,$out5,v28
lvx_u $in5,$x50,$inp
vcipher $out6,$out6,v28
lvx_u $in6,$x60,$inp
vcipher $out7,$out7,v28
lvx_u $in7,$x70,$inp
addi $inp,$inp,0x80
```

```
vcipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$inpperm
vcipher $out1,$out1,v29
le?vperm $in1,$in1,$in1,$inpperm
vcipher $out2,$out2,v29
le?vperm $in2,$in2,$in2,$inpperm
vcipher $out3,$out3,v29
le?vperm $in3,$in3,$in3,$inpperm
vcipher $out4,$out4,v29
le?vperm $in4,$in4,$in4,$inpperm
vcipher $out5,$out5,v29
le?vperm $in5,$in5,$in5,$inpperm
vcipher $out6,$out6,v29
le?vperm $in6,$in6,$in6,$inpperm
```

```

vcipher $out7,$out7,v29
le?vperm $in7,$in7,$in7,$inpperm

add $inp,$inp,r0 # $inp is adjusted in such
    # way that at exit from the
    # loop inX-in7 are loaded
    # with last "words"
subfe. r0,r0,r0 # borrow?-1:0
vcipher $out0,$out0,v30
vxor $in0,$in0,v31 # xor with last round key
vcipher $out1,$out1,v30
vxor $in1,$in1,v31
vcipher $out2,$out2,v30
vxor $in2,$in2,v31
vcipher $out3,$out3,v30
vxor $in3,$in3,v31
vcipher $out4,$out4,v30
vxor $in4,$in4,v31
vcipher $out5,$out5,v30
vxor $in5,$in5,v31
vcipher $out6,$out6,v30
vxor $in6,$in6,v31
vcipher $out7,$out7,v30
vxor $in7,$in7,v31

bne Lctr32_enc8x_break # did $len-129 borrow?

vcipherlast $in0,$out0,$in0
vcipherlast $in1,$out1,$in1
vadduwm $out1,$ivec,$sone # counter values ...
vcipherlast $in2,$out2,$in2
vadduwm $out2,$ivec,$stwo
vxor $out0,$ivec,$rndkey0 # ... xored with rndkey[0]
vcipherlast $in3,$out3,$in3
vadduwm $out3,$out1,$stwo
vxor $out1,$out1,$rndkey0
vcipherlast $in4,$out4,$in4
vadduwm $out4,$out2,$stwo
vxor $out2,$out2,$rndkey0
vcipherlast $in5,$out5,$in5
vadduwm $out5,$out3,$stwo
vxor $out3,$out3,$rndkey0
vcipherlast $in6,$out6,$in6
vadduwm $out6,$out4,$stwo
vxor $out4,$out4,$rndkey0
vcipherlast $in7,$out7,$in7
vadduwm $out7,$out5,$stwo
vxor $out5,$out5,$rndkey0

```

```

le?vperm $in0,$in0,$in0,$inpperm
vadduwm $ivec,$out6,$two # next counter value
vxor $out6,$out6,$rndkey0
le?vperm $in1,$in1,$in1,$inpperm
vxor $out7,$out7,$rndkey0
mtctr $rounds

```

```

vcipher $out0,$out0,v24
stvx_u $in0,$x00,$out
le?vperm $in2,$in2,$in2,$inpperm
vcipher $out1,$out1,v24
stvx_u $in1,$x10,$out
le?vperm $in3,$in3,$in3,$inpperm
vcipher $out2,$out2,v24
stvx_u $in2,$x20,$out
le?vperm $in4,$in4,$in4,$inpperm
vcipher $out3,$out3,v24
stvx_u $in3,$x30,$out
le?vperm $in5,$in5,$in5,$inpperm
vcipher $out4,$out4,v24
stvx_u $in4,$x40,$out
le?vperm $in6,$in6,$in6,$inpperm
vcipher $out5,$out5,v24
stvx_u $in5,$x50,$out
le?vperm $in7,$in7,$in7,$inpperm
vcipher $out6,$out6,v24
stvx_u $in6,$x60,$out
vcipher $out7,$out7,v24
stvx_u $in7,$x70,$out
addi $out,$out,0x80

```

b Loop_ctr32_enc8x_middle

```

.align 5
Lctr32_enc8x_break:
cmpwi $len,-0x60
blt Lctr32_enc8x_one
nop
beq Lctr32_enc8x_two
cmpwi $len,-0x40
blt Lctr32_enc8x_three
nop
beq Lctr32_enc8x_four
cmpwi $len,-0x20
blt Lctr32_enc8x_five
nop
beq Lctr32_enc8x_six
cmpwi $len,0x00

```

blt Lctr32_enc8x_seven

Lctr32_enc8x_eight:

```
vcipherlast $out0,$out0,$in0
vcipherlast $out1,$out1,$in1
vcipherlast $out2,$out2,$in2
vcipherlast $out3,$out3,$in3
vcipherlast $out4,$out4,$in4
vcipherlast $out5,$out5,$in5
vcipherlast $out6,$out6,$in6
vcipherlast $out7,$out7,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x50,$out
le?vperm $out7,$out7,$out7,$inpperm
stvx_u $out6,$x60,$out
stvx_u $out7,$x70,$out
addi $out,$out,0x80
b Lctr32_enc8x_done
```

.align 5

Lctr32_enc8x_seven:

```
vcipherlast $out0,$out0,$in1
vcipherlast $out1,$out1,$in2
vcipherlast $out2,$out2,$in3
vcipherlast $out3,$out3,$in4
vcipherlast $out4,$out4,$in5
vcipherlast $out5,$out5,$in6
vcipherlast $out6,$out6,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
```

```
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
le?vperm $out6,$out6,$out6,$inpperm
stvx_u $out5,$x50,$out
stvx_u $out6,$x60,$out
addi $out,$out,0x70
b Lctr32_enc8x_done
```

```
.align 5
```

```
Lctr32_enc8x_six:
```

```
vcipherlast $out0,$out0,$in2
vcipherlast $out1,$out1,$in3
vcipherlast $out2,$out2,$in4
vcipherlast $out3,$out3,$in5
vcipherlast $out4,$out4,$in6
vcipherlast $out5,$out5,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
le?vperm $out5,$out5,$out5,$inpperm
stvx_u $out4,$x40,$out
stvx_u $out5,$x50,$out
addi $out,$out,0x60
b Lctr32_enc8x_done
```

```
.align 5
```

```
Lctr32_enc8x_five:
```

```
vcipherlast $out0,$out0,$in3
vcipherlast $out1,$out1,$in4
vcipherlast $out2,$out2,$in5
vcipherlast $out3,$out3,$in6
vcipherlast $out4,$out4,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
```



```
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$inpperm
stvx_u $out3,$x30,$out
stvx_u $out4,$x40,$out
addi $out,$out,0x50
b Lctr32_enc8x_done
```

```
.align 5
```

```
Lctr32_enc8x_four:
```

```
vcipherlast $out0,$out0,$in4
vcipherlast $out1,$out1,$in5
vcipherlast $out2,$out2,$in6
vcipherlast $out3,$out3,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$inpperm
stvx_u $out2,$x20,$out
stvx_u $out3,$x30,$out
addi $out,$out,0x40
b Lctr32_enc8x_done
```

```
.align 5
```

```
Lctr32_enc8x_three:
```

```
vcipherlast $out0,$out0,$in5
vcipherlast $out1,$out1,$in6
vcipherlast $out2,$out2,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
le?vperm $out2,$out2,$out2,$inpperm
stvx_u $out1,$x10,$out
stvx_u $out2,$x20,$out
addi $out,$out,0x30
b Lctr32_enc8x_done
```

```
.align 5
```

```
Lctr32_enc8x_two:
```

```
vcipherlast $out0,$out0,$in6
vcipherlast $out1,$out1,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
le?vperm $out1,$out1,$out1,$inpperm
stvx_u $out0,$x00,$out
```

```
stvx_u $out1,$x10,$out
addi $out,$out,0x20
b Lctr32_enc8x_done
```

```
.align 5
```

```
Lctr32_enc8x_one:
```

```
vcipherlast $out0,$out0,$in7
```

```
le?vperm $out0,$out0,$out0,$inpperm
```

```
stvx_u $out0,0,$out
```

```
addi $out,$out,0x10
```

```
Lctr32_enc8x_done:
```

```
li r10,`$FRAME+15`
```

```
li r11,`$FRAME+31`
```

```
stvx $inpperm,r10,$sp # wipe copies of round keys
```

```
addi r10,r10,32
```

```
stvx $inpperm,r11,$sp
```

```
addi r11,r11,32
```

```
stvx $inpperm,r10,$sp
```

```
addi r10,r10,32
```

```
stvx $inpperm,r11,$sp
```

```
addi r11,r11,32
```

```
stvx $inpperm,r10,$sp
```

```
addi r10,r10,32
```

```
stvx $inpperm,r11,$sp
```

```
addi r11,r11,32
```

```
stvx $inpperm,r10,$sp
```

```
addi r10,r10,32
```

```
stvx $inpperm,r11,$sp
```

```
addi r11,r11,32
```

```
mtspr 256,$vrsave
```

```
lvx v20,r10,$sp # ABI says so
```

```
addi r10,r10,32
```

```
lvx v21,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v22,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v23,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v24,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v25,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v26,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v27,r11,$sp
```

```

addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size ${prefix}_ctr32_encrypt_blocks,-.${prefix}_ctr32_encrypt_blocks

```

```

}} }}

```

```

#####

```

```

{{{ # XTS procedures #
# int aes_p8_xts_[en]crypt(const char *inp, char *out, size_t len, #
#             const AES_KEY *key1, const AES_KEY *key2, #
#             [const] unsigned char iv[16]); #
# If $key2 is NULL, then a "tweak chaining" mode is engaged, in which #
# input tweak value is assumed to be encrypted already, and last tweak #
# value, one suitable for consecutive call on same chunk of data, is #
# written back to original buffer. In addition, in "tweak chaining" #
# mode only complete input blocks are processed. #

```

```

my ($inp,$out,$len,$key1,$key2,$ivp,$rounds,$idx) = map("r$_",(3..10));
my ($rndkey0,$rndkey1,$inout) = map("v$_",(0..2));
my ($output,$inptail,$inpperm,$leperm,$keyperm) = map("v$_",(3..7));
my ($tweak,$seven,$eighty7,$tmp,$tweak1) = map("v$_",(8..12));
my $taillen = $key2;

```

```

($inp,$idx) = ($idx,$inp); # reassign

```

```

$code.=<<___.;
.globl ${prefix}_xts_encrypt
.align 5
.${prefix}_xts_encrypt:
mr $inp,r3 # reassign
li r3,-1
${UCMP}i $len,16

```

```

bltlr-

lis r0,0xffff0
mfspr r12,256 # save vrsave
li r11,0
mtspr 256,r0

vspltisb $seven,0x07 # 0x070707..07
le?lvsl $leperm,r11,r11
le?vspltisb $tmp,0x0f
le?vxor $leperm,$leperm,$seven

li $idx,15
lvx $tweak,0,$ivp # load [unaligned] iv
lvsl $inpperm,0,$ivp
lvx $sintail,$idx,$ivp
le?vxor $inpperm,$inpperm,$tmp
vperm $tweak,$tweak,$sintail,$inpperm

neg r11,$inp
lvsr $inpperm,0,r11 # prepare for unaligned load
lvx $sinout,0,$inp
addi $inp,$inp,15 # 15 is not typo
le?vxor $inpperm,$inpperm,$tmp

${UCMP}i $key2,0 # key2==NULL?
beq Lxts_enc_no_key2

?lvsl $keyperm,0,$key2 # prepare for unaligned key
lwz $rounds,240($key2)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16

lvx $rndkey0,0,$key2
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
mtctr $rounds

Ltweak_xts_enc:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16

```

```

?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
bdnz Ltweak_xts_enc

```

```

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast $tweak,$tweak,$rndkey0

```

```

li $ivp,0 # don't chain the tweak
b Lxts_enc

```

Lxts_enc_no_key2:

```

li $idx,-16
and $len,$len,$idx # in "tweak chaining"
    # mode only complete
    # blocks are processed

```

Lxts_enc:

```

lvx $sintail,0,$inp
addi $inp,$inp,16

```

```

?vsl $keyperm,0,$key1 # prepare for unaligned key
lwz $rounds,240($key1)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16

```

```

vsib $eighty7,$seven,$seven # 0x808080..80
vor $eighty7,$eighty7,$seven # 0x878787..87
vspltisb $tmp,1 # 0x010101..01
vsldoi $eighty7,$eighty7,$tmp,15 # 0x870101..01

```

```

${UCMP}i $len,96
bge _aesp8_xts_encrypt6x

```

```

andi $taillen,$len,15
subic r0,$len,32
subi $taillen,$taillen,16
subfe r0,r0,r0
and r0,r0,$taillen
add $inp,$inp,r0

```

```

lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16

```

```

vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
mtctr $rounds
b Loop_xts_enc

```

```

.align 5
Loop_xts_enc:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
bdnz Loop_xts_enc

```

```

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $rndkey0,$rndkey0,$tweak
vcipherlast $output,$inout,$rndkey0

```

```

le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out
addi $out,$out,16

```

```

subic $len,$len,16
beq Lxts_enc_done

```

```

vmr $inout,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16

```

```

subic r0,$len,32
subfe r0,r0,r0
and r0,r0,$taillen

```

```

add $inp,$inp,r0

vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak,$tweak,$tmp

vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $output,$output,$rndkey0 # just in case $len<16
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16

mtctr $rounds
${UCMP}i $len,16
bge Loop_xts_enc

vxor $output,$output,$tweak
lvsr $inpperm,0,$len # $inpperm is no longer needed
vxor $inptail,$inptail,$inptail # $inptail is no longer needed
vspltisb $tmp,-1
vperm $inptail,$inptail,$tmp,$inpperm
vsel $inout,$inout,$output,$inptail

subi r11,$out,17
subi $out,$out,16
mtctr $len
li $len,16
Loop_xts_enc_steal:
lbzu r0,1(r11)
stb r0,16(r11)
bdnz Loop_xts_enc_steal

mtctr $rounds
b Loop_xts_enc # one more time...

Lxts_enc_done:
${UCMP}i $ivp,0
beq Lxts_enc_ret

vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak,$tweak,$tmp

```

```

le?vperm $tweak,$tweak,$tweak,$leperm
stvx_u $tweak,0,$ivp

Lxts_enc_ret:
    mtspr 256,r12 # restore vrsave
    li r3,0
    blr
    .long 0
    .byte 0,12,0x04,0,0x80,6,6,0
    .long 0
    .size ${prefix}_xts_encrypt,-.${prefix}_xts_encrypt

.globl ${prefix}_xts_decrypt
.align 5
.${prefix}_xts_decrypt:
    mr $inp,r3 # reassign
    li r3,-1
    ${UCMP}i $len,16
    btlr-

    lis r0,0xffff8
    mfspr r12,256 # save vrsave
    li r11,0
    mtspr 256,r0

    andi. r0,$len,15
    neg r0,r0
    andi. r0,r0,16
    sub $len,$len,r0

    vspltisb $seven,0x07 # 0x070707..07
    le?lvsl $leperm,r11,r11
    le?vspltisb $tmp,0x0f
    le?vxor $leperm,$leperm,$seven

    li $idx,15
    lvx $tweak,0,$ivp # load [unaligned] iv
    lvsl $inpperm,0,$ivp
    lvx $inptail,$idx,$ivp
    le?vxor $inpperm,$inpperm,$tmp
    vperm $tweak,$tweak,$inptail,$inpperm

    neg r11,$inp
    lvsr $inpperm,0,r11 # prepare for unaligned load
    lvx $inout,0,$inp
    addi $inp,$inp,15 # 15 is not typo
    le?vxor $inpperm,$inpperm,$tmp

```



```

${UCMP}i $key2,0 # key2==NULL?
beq Lxts_dec_no_key2

?lvs1 $keyperm,0,$key2 # prepare for unaligned key
lwz $rounds,240($key2)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16

lvx $rndkey0,0,$key2
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
mtctr $rounds

Ltweak_xts_dec:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipher $tweak,$tweak,$rndkey0
lvx $rndkey0,$idx,$key2
addi $idx,$idx,16
bdnz Ltweak_xts_dec

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vcipher $tweak,$tweak,$rndkey1
lvx $rndkey1,$idx,$key2
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vcipherlast $tweak,$tweak,$rndkey0

li $ivp,0 # don't chain the tweak
b Lxts_dec

Lxts_dec_no_key2:
neg $idx,$len
andi. $idx,$idx,15
add $len,$len,$idx # in "tweak chaining"
# mode only complete
# blocks are processed
Lxts_dec:
lvx $inptail,0,$inp
addi $inp,$inp,16

```

```
?lvs! $keyperm,0,$key1 # prepare for unaligned key
lwz $rounds,240($key1)
srwi $rounds,$rounds,1
subi $rounds,$rounds,1
li $idx,16
```

```
vs!b $eighty7,$seven,$seven # 0x808080..80
vor $eighty7,$eighty7,$seven # 0x878787..87
vspltisb $tmp,1 # 0x010101..01
vsldoi $eighty7,$eighty7,$tmp,15 # 0x870101..01
```

```
#{UCMP}i $len,96
bge _aesp8_xts_decrypt6x
```

```
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
mtctr $rounds
```

```
#{UCMP}i $len,16
blt Ltail_xts_dec
be?b Loop_xts_dec
```

```
.align 5
Loop_xts_dec:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
bdnz Loop_xts_dec
```

```
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $rndkey0,$rndkey0,$tweak
```

```

vncipherlast $output,$inout,$rndkey0

le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out
addi $out,$out,16

subic. $len,$len,16
beq Lxts_dec_done

vmr $inout,$inptail
lvx $inptail,0,$inp
addi $inp,$inp,16
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16

vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak,$tweak,$tmp

vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxor $inout,$inout,$tweak
vxor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16

mtctr $rounds
${UCMP}i $len,16
bge Loop_xts_dec

Ltail_xts_dec:
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak1,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak1,$tweak1,$tmp

subi $inp,$inp,16
add $inp,$inp,$len

vxor $inout,$inout,$tweak # :-(
vxor $inout,$inout,$tweak1 # :-)

```

```

Loop_xts_dec_short:
?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vncipher $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16
bdnz Loop_xts_dec_short

?vperm $rndkey1,$rndkey1,$rndkey0,$keyperm
vncipher $inout,$inout,$rndkey1
lvx $rndkey1,$idx,$key1
li $idx,16
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm
vxnor $rndkey0,$rndkey0,$tweak1
vncipherlast $output,$inout,$rndkey0

le?vperm $tmp,$output,$output,$leperm
be?nop
le?stvx_u $tmp,0,$out
be?stvx_u $output,0,$out

vmr $inout,$inptail
lvx $inptail,0,$inp
#addi $inp,$inp,16
lvx $rndkey0,0,$key1
lvx $rndkey1,$idx,$key1
addi $idx,$idx,16
vperm $inout,$inout,$inptail,$inpperm
?vperm $rndkey0,$rndkey0,$rndkey1,$keyperm

lvsr $inpperm,0,$len # $inpperm is no longer needed
vxnor $inptail,$inptail,$inptail # $inptail is no longer needed
vspltisb $tmp,-1
vperm $inptail,$inptail,$tmp,$inpperm
vsel $inout,$inout,$output,$inptail

vxnor $rndkey0,$rndkey0,$tweak
vxnor $inout,$inout,$rndkey0
lvx $rndkey0,$idx,$key1
addi $idx,$idx,16

subi r11,$out,1
mtctr $len
li $len,16
Loop_xts_dec_steal:

```

```

lbzu r0,1(r11)
stb r0,16(r11)
bdnz Loop_xts_dec_steal

mtctr $rounds
b Loop_xts_dec # one more time...

Lxts_dec_done:
${UCMP}i $ivp,0
beq Lxts_dec_ret

vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $tweak,$tweak,$tmp

le?vperm $tweak,$tweak,$tweak,$leperm
stvx_u $tweak,0,$ivp

Lxts_dec_ret:
mfspr 256,r12 # restore vrsave
li r3,0
blr
.long 0
.byte 0,12,0x04,0,0x80,6,6,0
.long 0
.size ${prefix}_xts_decrypt,.-.${prefix}_xts_decrypt
_____
#####
{{ # Optimized XTS procedures #
my $key_=$key2;
my ($x00,$x10,$x20,$x30,$x40,$x50,$x60,$x70)=map("r$_",(0,3,26..31));
  $x00=0 if ($flavour =~ /osx/);
my ($in0, $in1, $in2, $in3, $in4, $in5 )=map("v$_",(0..5));
my ($out0, $out1, $out2, $out3, $out4, $out5)=map("v$_",(7,12..16));
my ($twk0, $twk1, $twk2, $twk3, $twk4, $twk5)=map("v$_",(17..22));
my $rndkey0="v23"; # v24-v25 rotating buffer for first found keys
  # v26-v31 last 6 round keys
my ($keyperm)=$out0; # aliases with "caller", redundant assignment
my $taillen=$x70;

$code.=<<____;
.align 5
_esp8_xts_encrypt6x:
$STU $sp,-`($FRAME+21*16+6*SSIZE_T)`($sp)
mflr r11
li r7,`$FRAME+8*16+15`

```

```

li r3,`$FRAME+8*16+31`
$PUSH r11,`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
stvx v20,r7,$sp # ABI says so
addi r7,r7,32
stvx v21,r3,$sp
addi r3,r3,32
stvx v22,r7,$sp
addi r7,r7,32
stvx v23,r3,$sp
addi r3,r3,32
stvx v24,r7,$sp
addi r7,r7,32
stvx v25,r3,$sp
addi r3,r3,32
stvx v26,r7,$sp
addi r7,r7,32
stvx v27,r3,$sp
addi r3,r3,32
stvx v28,r7,$sp
addi r7,r7,32
stvx v29,r3,$sp
addi r3,r3,32
stvx v30,r7,$sp
stvx v31,r3,$sp
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0

subi $rounds,$rounds,3 # -4 in total

lvx $rndkey0,$x00,$key1 # load key schedule
lvx v30,$x10,$key1
addi $key1,$key1,0x20
lvx v31,$x00,$key1
?vperm $rndkey0,$rndkey0,v30,$keyperm

```

```

addi $key_,$sp,$FRAME+15
mtctr $rounds

Load_xts_enc_key:
?vperm v24,v30,v31,$keyperm
lvx v30,$x10,$key1
addi $key1,$key1,0x20
stvx v24,$x00,$key_ # off-load round[1]
?vperm v25,v31,v30,$keyperm
lvx v31,$x00,$key1
stvx v25,$x10,$key_ # off-load round[2]
addi $key_,$key_,0x20
bdnz Load_xts_enc_key

lvx v26,$x10,$key1
?vperm v24,v30,v31,$keyperm
lvx v27,$x20,$key1
stvx v24,$x00,$key_ # off-load round[3]
?vperm v25,v31,v26,$keyperm
lvx v28,$x30,$key1
stvx v25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm v26,v26,v27,$keyperm
lvx v29,$x40,$key1
?vperm v27,v27,v28,$keyperm
lvx v30,$x50,$key1
?vperm v28,v28,v29,$keyperm
lvx v31,$x60,$key1
?vperm v29,v29,v30,$keyperm
lvx $twk5,$x70,$key1 # borrow $twk5
?vperm v30,v30,v31,$keyperm
lvx v24,$x00,$key_ # pre-load round[1]
?vperm v31,v31,$twk5,$keyperm
lvx v25,$x10,$key_ # pre-load round[2]

vperm $in0,$inout,$inptail,$inpperm
subi $inp,$inp,31 # undo "caller"
vxor $twk0,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $out0,$in0,$twk0
vxor $tweak,$tweak,$tmp

lvx_u $in1,$x10,$inp
vxor $twk1,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value

```

```
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in1,$in1,$in1,$leperm
vand $tmp,$tmp,$eighty7
vxor $out1,$in1,$twk1
vxor $tweak,$tweak,$tmp
```

```
lvx_u $in2,$x20,$inp
andi $taillen,$len,15
vxor $twk2,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in2,$in2,$in2,$leperm
vand $tmp,$tmp,$eighty7
vxor $out2,$in2,$twk2
vxor $tweak,$tweak,$tmp
```

```
lvx_u $in3,$x30,$inp
sub $len,$len,$taillen
vxor $twk3,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in3,$in3,$in3,$leperm
vand $tmp,$tmp,$eighty7
vxor $out3,$in3,$twk3
vxor $tweak,$tweak,$tmp
```

```
lvx_u $in4,$x40,$inp
subi $len,$len,0x60
vxor $twk4,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in4,$in4,$in4,$leperm
vand $tmp,$tmp,$eighty7
vxor $out4,$in4,$twk4
vxor $tweak,$tweak,$tmp
```

```
lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
vxor $twk5,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in5,$in5,$in5,$leperm
vand $tmp,$tmp,$eighty7
```



```

vxor $out5,$in5,$twk5
vxor $tweak,$tweak,$tmp

vxor v31,v31,$rndkey0
mtctr $rounds
b Loop_xts_enc6x

.align 5
Loop_xts_enc6x:
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
vcipher $out5,$out5,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
vcipher $out5,$out5,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_xts_enc6x

subic $len,$len,96 # $len-=96
vxor $in0,$twk0,v31 # xor with last round key
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk0,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vsldoi $tmp,$tmp,$tmp,15
vcipher $out4,$out4,v24
vcipher $out5,$out5,v24

subfe. r0,r0,r0 # borrow?-1:0
vand $tmp,$tmp,$eighty7
vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vxor $tweak,$tweak,$tmp
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vxor $in1,$twk1,v31

```

```
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk1,$tweak,$rndkey0
vcipher $out4,$out4,v25
vcipher $out5,$out5,v25
```

```
and r0,r0,$len
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vcipher $out0,$out0,v26
vcipher $out1,$out1,v26
vand $tmp,$tmp,$eighty7
vcipher $out2,$out2,v26
vcipher $out3,$out3,v26
vxor $tweak,$tweak,$tmp
vcipher $out4,$out4,v26
vcipher $out5,$out5,v26
```

```
add $inp,$inp,r0 # $inp is adjusted in such
# way that at exit from the
# loop inX-in5 are loaded
# with last "words"
vxor $in2,$twk2,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk2,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vcipher $out0,$out0,v27
vcipher $out1,$out1,v27
vsldoi $tmp,$tmp,$tmp,15
vcipher $out2,$out2,v27
vcipher $out3,$out3,v27
vand $tmp,$tmp,$eighty7
vcipher $out4,$out4,v27
vcipher $out5,$out5,v27
```

```
addi $key_,$sp,$FRAME+15 # rewind $key_
vxor $tweak,$tweak,$tmp
vcipher $out0,$out0,v28
vcipher $out1,$out1,v28
vxor $in3,$twk3,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk3,$tweak,$rndkey0
vcipher $out2,$out2,v28
vcipher $out3,$out3,v28
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vcipher $out4,$out4,v28
vcipher $out5,$out5,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
```

```

vand $tmp,$tmp,$eighty7

vcipher $out0,$out0,v29
vcipher $out1,$out1,v29
vxor $tweak,$tweak,$tmp
vcipher $out2,$out2,v29
vcipher $out3,$out3,v29
vxor $in4,$twk4,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk4,$tweak,$rndkey0
vcipher $out4,$out4,v29
vcipher $out5,$out5,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15

vcipher $out0,$out0,v30
vcipher $out1,$out1,v30
vand $tmp,$tmp,$eighty7
vcipher $out2,$out2,v30
vcipher $out3,$out3,v30
vxor $tweak,$tweak,$tmp
vcipher $out4,$out4,v30
vcipher $out5,$out5,v30
vxor $in5,$twk5,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk5,$tweak,$rndkey0

vcipherlast $out0,$out0,$in0
lvx_u $in0,$x00,$inp # load next input block
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vcipherlast $out1,$out1,$in1
lvx_u $in1,$x10,$inp
vcipherlast $out2,$out2,$in2
le?vperm $in0,$in0,$in0,$leperm
lvx_u $in2,$x20,$inp
vand $tmp,$tmp,$eighty7
vcipherlast $out3,$out3,$in3
le?vperm $in1,$in1,$in1,$leperm
lvx_u $in3,$x30,$inp
vcipherlast $out4,$out4,$in4
le?vperm $in2,$in2,$in2,$leperm
lvx_u $in4,$x40,$inp
vxor $tweak,$tweak,$tmp
vcipherlast $tmp,$out5,$in5 # last block might be needed
# in stealing mode
le?vperm $in3,$in3,$in3,$leperm

```

```

lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
le?vperm $in4,$in4,$in4,$leperm
le?vperm $in5,$in5,$in5,$leperm

le?vperm $out0,$out0,$out0,$leperm
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk0
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
vxor $out1,$in1,$twk1
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
vxor $out2,$in2,$twk2
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
vxor $out3,$in3,$twk3
le?vperm $out5,$tmp,$tmp,$leperm
stvx_u $out4,$x40,$out
vxor $out4,$in4,$twk4
le?stvx_u $out5,$x50,$out
be?stvx_u $tmp, $x50,$out
vxor $out5,$in5,$twk5
addi $out,$out,0x60

mtctr $rounds
beq Loop_xts_enc6x # did $len==96 borrow?

addic $len,$len,0x60
beq Lxts_enc6x_zero
cmpwi $len,0x20
blt Lxts_enc6x_one
nop
beq Lxts_enc6x_two
cmpwi $len,0x40
blt Lxts_enc6x_three
nop
beq Lxts_enc6x_four

Lxts_enc6x_five:
vxor $out0,$in1,$twk0
vxor $out1,$in2,$twk1
vxor $out2,$in3,$twk2
vxor $out3,$in4,$twk3
vxor $out4,$in5,$twk4

bl _aesp8_xts_enc5x

```

```

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk5 # unused tweak
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
vxor $tmp,$out4,$twk5 # last block prep for stealing
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
stvx_u $out4,$x40,$out
addi $out,$out,0x50
bne Lxts_enc6x_steal
b Lxts_enc6x_done

```

```
.align 4
```

```
Lxts_enc6x_four:
```

```

vxor $out0,$in2,$twk0
vxor $out1,$in3,$twk1
vxor $out2,$in4,$twk2
vxor $out3,$in5,$twk3
vxor $out4,$out4,$out4

```

```
bl _aesp8_xts_enc5x
```

```

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk4 # unused tweak
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
vxor $tmp,$out3,$twk4 # last block prep for stealing
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
stvx_u $out3,$x30,$out
addi $out,$out,0x40
bne Lxts_enc6x_steal
b Lxts_enc6x_done

```

```
.align 4
```

```
Lxts_enc6x_three:
```

```

vxor $out0,$in3,$twk0
vxor $out1,$in4,$twk1
vxor $out2,$in5,$twk2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4

```

```

bl _aesp8_xts_enc5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk3 # unused tweak
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $tmp,$out2,$twk3 # last block prep for stealing
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
stvx_u $out2,$x20,$out
addi $out,$out,0x30
bne Lxts_enc6x_steal
b Lxts_enc6x_done

```

```
.align 4
```

```
Lxts_enc6x_two:
```

```

vxor $out0,$in4,$twk0
vxor $out1,$in5,$twk1
vxor $out2,$out2,$out2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4

```

```
bl _aesp8_xts_enc5x
```

```

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk2 # unused tweak
vxor $tmp,$out1,$twk2 # last block prep for stealing
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
stvx_u $out1,$x10,$out
addi $out,$out,0x20
bne Lxts_enc6x_steal
b Lxts_enc6x_done

```

```
.align 4
```

```
Lxts_enc6x_one:
```

```

vxor $out0,$in5,$twk0
nop

```

```
Loop_xts_enc1x:
```

```

vcipher $out0,$out0,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

```

```

vcipher $out0,$out0,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_xts_enc1x

```

```

add $inp,$inp,$taillen
cmpwi $taillen,0
vcipher $out0,$out0,v24

subi $inp,$inp,16
vcipher $out0,$out0,v25

lvsr $inpperm,0,$taillen
vcipher $out0,$out0,v26

lvx_u $in0,0,$inp
vcipher $out0,$out0,v27

addi $key_,$sp,$FRAME+15 # rewind $key_
vcipher $out0,$out0,v28
lvx v24,$x00,$key_ # re-pre-load round[1]

vcipher $out0,$out0,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $twk0,$twk0,v31

le?vperm $in0,$in0,$in0,$leperm
vcipher $out0,$out0,v30

vperm $in0,$in0,$in0,$inpperm
vcipherlast $out0,$out0,$twk0

vmr $twk0,$twk1 # unused tweak
vxor $tmp,$out0,$twk1 # last block prep for stealing
le?vperm $out0,$out0,$out0,$leperm
stvx_u $out0,$x00,$out # store output
addi $out,$out,0x10
bne Lxts_enc6x_steal
b Lxts_enc6x_done

.align 4
Lxts_enc6x_zero:
cmpwi $taillen,0
beq Lxts_enc6x_done

add $inp,$inp,$taillen
subi $inp,$inp,16
lvx_u $in0,0,$inp
lvsr $inpperm,0,$taillen # $in5 is no more
le?vperm $in0,$in0,$in0,$leperm
vperm $in0,$in0,$in0,$inpperm
vxor $tmp,$tmp,$twk0
Lxts_enc6x_steal:

```

```

vxor $in0,$in0,$twk0
vxor $out0,$out0,$out0
vspltisb $out1,-1
vperm $out0,$out0,$out1,$sinpperm
vsel $out0,$in0,$tmp,$out0 # $tmp is last block, remember?

```

```

subi r30,$out,17
subi $out,$out,16
mtctr $taillen
Loop_xts_enc6x_steal:
lbzu r0,1(r30)
stb r0,16(r30)
bdnz Loop_xts_enc6x_steal

```

```

li $taillen,0
mtctr $rounds
b Loop_xts_enc1x # one more time...

```

```

.align 4
Lxts_enc6x_done:
${UCMP}i $ivp,0
beq Lxts_enc6x_ret

```

```

vxor $tweak,$twk0,$rndkey0
le?vperm $tweak,$tweak,$tweak,$leperm
stvx_u $tweak,0,$ivp

```

```

Lxts_enc6x_ret:
mtlr r11
li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx $seven,r10,$sp # wipe copies of round keys
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32

```



```

mtspr 256,$vrsave
lvx v20,r10,$sp # ABI says so
addi r10,r10,32
lvx v21,r11,$sp
addi r11,r11,32
lvx v22,r10,$sp
addi r10,r10,32
lvx v23,r11,$sp
addi r11,r11,32
lvx v24,r10,$sp
addi r10,r10,32
lvx v25,r11,$sp
addi r11,r11,32
lvx v26,r10,$sp
addi r10,r10,32
lvx v27,r11,$sp
addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0
.byte 0,12,0x04,1,0x80,6,6,0
.long 0

.align 5
_esp8_xts_enc5x:
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25

```

```

vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
lvx v25,$x10,$key_ # round[4]
bdnz _aesp8_xts_enc5x

add $inp,$inp,$taillen
cmpwi $taillen,0
vcipher $out0,$out0,v24
vcipher $out1,$out1,v24
vcipher $out2,$out2,v24
vcipher $out3,$out3,v24
vcipher $out4,$out4,v24

subi $inp,$inp,16
vcipher $out0,$out0,v25
vcipher $out1,$out1,v25
vcipher $out2,$out2,v25
vcipher $out3,$out3,v25
vcipher $out4,$out4,v25
vxor $twk0,$twk0,v31

vcipher $out0,$out0,v26
lvsr $inpperm,0,$taillen # $in5 is no more
vcipher $out1,$out1,v26
vcipher $out2,$out2,v26
vcipher $out3,$out3,v26
vcipher $out4,$out4,v26
vxor $in1,$twk1,v31

vcipher $out0,$out0,v27
lvx_u $in0,0,$inp
vcipher $out1,$out1,v27
vcipher $out2,$out2,v27
vcipher $out3,$out3,v27
vcipher $out4,$out4,v27
vxor $in2,$twk2,v31

addi $key_,$sp,$FRAME+15 # rewind $key_
vcipher $out0,$out0,v28
vcipher $out1,$out1,v28
vcipher $out2,$out2,v28
vcipher $out3,$out3,v28
vcipher $out4,$out4,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
vxor $in3,$twk3,v31

vcipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$leperm

```

```

vcipher $out1,$out1,v29
vcipher $out2,$out2,v29
vcipher $out3,$out3,v29
vcipher $out4,$out4,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $in4,$twk4,v31

vcipher $out0,$out0,v30
vperm $in0,$in0,$in0,$inpperm
vcipher $out1,$out1,v30
vcipher $out2,$out2,v30
vcipher $out3,$out3,v30
vcipher $out4,$out4,v30

vcipherlast $out0,$out0,$twk0
vcipherlast $out1,$out1,$in1
vcipherlast $out2,$out2,$in2
vcipherlast $out3,$out3,$in3
vcipherlast $out4,$out4,$in4
blr
    .long 0
    .byte 0,12,0x14,0,0,0,0,0

.align 5
_esp8_xts_decrypt6x:
$STU $sp,-(`$FRAME+21*16+6*$SIZE_T)`($sp)
mflr r11
li r7,`$FRAME+8*16+15`
li r3,`$FRAME+8*16+31`
$PUSH r11,`$FRAME+21*16+6*$SIZE_T+$LRSAVE`($sp)
stvx v20,r7,$sp # ABI says so
addi r7,r7,32
stvx v21,r3,$sp
addi r3,r3,32
stvx v22,r7,$sp
addi r7,r7,32
stvx v23,r3,$sp
addi r3,r3,32
stvx v24,r7,$sp
addi r7,r7,32
stvx v25,r3,$sp
addi r3,r3,32
stvx v26,r7,$sp
addi r7,r7,32
stvx v27,r3,$sp
addi r3,r3,32
stvx v28,r7,$sp
addi r7,r7,32

```

```

stvx v29,r3,$sp
addi r3,r3,32
stvx v30,r7,$sp
stvx v31,r3,$sp
li r0,-1
stw $vrsave,`$FRAME+21*16-4`($sp) # save vrsave
li $x10,0x10
$PUSH r26,`$FRAME+21*16+0*$SIZE_T`($sp)
li $x20,0x20
$PUSH r27,`$FRAME+21*16+1*$SIZE_T`($sp)
li $x30,0x30
$PUSH r28,`$FRAME+21*16+2*$SIZE_T`($sp)
li $x40,0x40
$PUSH r29,`$FRAME+21*16+3*$SIZE_T`($sp)
li $x50,0x50
$PUSH r30,`$FRAME+21*16+4*$SIZE_T`($sp)
li $x60,0x60
$PUSH r31,`$FRAME+21*16+5*$SIZE_T`($sp)
li $x70,0x70
mtspr 256,r0

```

```

subi $rounds,$rounds,3 # -4 in total

```

```

lvx $rndkey0,$x00,$key1 # load key schedule
lvx v30,$x10,$key1
addi $key1,$key1,0x20
lvx v31,$x00,$key1
?vperm $rndkey0,$rndkey0,v30,$keyperm
addi $key_,$sp,$FRAME+15
mtctr $rounds

```

Load_xts_dec_key:

```

?vperm v24,v30,v31,$keyperm
lvx v30,$x10,$key1
addi $key1,$key1,0x20
stvx v24,$x00,$key_ # off-load round[1]
?vperm v25,v31,v30,$keyperm
lvx v31,$x00,$key1
stvx v25,$x10,$key_ # off-load round[2]
addi $key_,$key_,0x20
bdnz Load_xts_dec_key

```

```

lvx v26,$x10,$key1
?vperm v24,v30,v31,$keyperm
lvx v27,$x20,$key1
stvx v24,$x00,$key_ # off-load round[3]
?vperm v25,v31,v26,$keyperm
lvx v28,$x30,$key1

```

```

stvx v25,$x10,$key_ # off-load round[4]
addi $key_,$sp,$FRAME+15 # rewind $key_
?vperm v26,v26,v27,$keyperm
lvx v29,$x40,$key1
?vperm v27,v27,v28,$keyperm
lvx v30,$x50,$key1
?vperm v28,v28,v29,$keyperm
lvx v31,$x60,$key1
?vperm v29,v29,v30,$keyperm
lvx $twk5,$x70,$key1 # borrow $twk5
?vperm v30,v30,v31,$keyperm
lvx v24,$x00,$key_ # pre-load round[1]
?vperm v31,v31,$twk5,$keyperm
lvx v25,$x10,$key_ # pre-load round[2]

```

```

vperm $in0,$inout,$inptail,$inpperm
subi $inp,$inp,31 # undo "caller"
vxor $twk0,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vand $tmp,$tmp,$eighty7
vxor $out0,$in0,$twk0
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in1,$x10,$inp
vxor $twk1,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in1,$in1,$in1,$leperm
vand $tmp,$tmp,$eighty7
vxor $out1,$in1,$twk1
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in2,$x20,$inp
andi $taillen,$len,15
vxor $twk2,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in2,$in2,$in2,$leperm
vand $tmp,$tmp,$eighty7
vxor $out2,$in2,$twk2
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in3,$x30,$inp
sub $len,$len,$taillen

```

```

vxor $twk3,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in3,$in3,$in3,$leperm
vand $tmp,$tmp,$eighty7
vxor $out3,$in3,$twk3
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in4,$x40,$inp
subi $len,$len,0x60
vxor $twk4,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in4,$in4,$in4,$leperm
vand $tmp,$tmp,$eighty7
vxor $out4,$in4,$twk4
vxor $tweak,$tweak,$tmp

```

```

lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
vxor $twk5,$tweak,$rndkey0
vsrab $tmp,$tweak,$seven # next tweak value
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
le?vperm $in5,$in5,$in5,$leperm
vand $tmp,$tmp,$eighty7
vxor $out5,$in5,$twk5
vxor $tweak,$tweak,$tmp

```

```

vxor v31,v31,$rndkey0
mtctr $rounds
b Loop_xts_dec6x

```

```

.align 5
Loop_xts_dec6x:
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

```

```

vncipher $out0,$out0,v25
vncipher $out1,$out1,v25

```

```

vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_xts_dec6x

subic $len,$len,96 # $len-=96
vxor $in0,$twk0,v31 # xor with last round key
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk0,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vsldoi $tmp,$tmp,$tmp,15
vncipher $out4,$out4,v24
vncipher $out5,$out5,v24

subfe. r0,r0,r0 # borrow?-1:0
vand $tmp,$tmp,$eighty7
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vxor $tweak,$tweak,$tmp
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vxor $in1,$twk1,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk1,$tweak,$rndkey0
vncipher $out4,$out4,v25
vncipher $out5,$out5,v25

and r0,r0,$len
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vand $tmp,$tmp,$eighty7
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vxor $tweak,$tweak,$tmp
vncipher $out4,$out4,v26
vncipher $out5,$out5,v26

add $inp,$inp,r0 # $inp is adjusted in such
# way that at exit from the
# loop inX-in5 are loaded

```

```

# with last "words"
vxor $in2,$twk2,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk2,$tweak,$rndkey0
vaddubm $tweak,$tweak,$tweak
vncipher $out0,$out0,v27
vncipher $out1,$out1,v27
vsldoi $tmp,$tmp,$tmp,15
vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vand $tmp,$tmp,$eighty7
vncipher $out4,$out4,v27
vncipher $out5,$out5,v27

```

```

addi $key_,$sp,$FRAME+15 # rewind $key_
vxor $tweak,$tweak,$tmp
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vxor $in3,$twk3,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk3,$tweak,$rndkey0
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vncipher $out4,$out4,v28
vncipher $out5,$out5,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
vand $tmp,$tmp,$eighty7

```

```

vncipher $out0,$out0,v29
vncipher $out1,$out1,v29
vxor $tweak,$tweak,$tmp
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vxor $in4,$twk4,v31
vsrab $tmp,$tweak,$seven # next tweak value
vxor $twk4,$tweak,$rndkey0
vncipher $out4,$out4,v29
vncipher $out5,$out5,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15

```

```

vncipher $out0,$out0,v30
vncipher $out1,$out1,v30
vand $tmp,$tmp,$eighty7
vncipher $out2,$out2,v30

```



```

vncipher $out3,$out3,v30
v xor $tweak,$tweak,$tmp
vncipher $out4,$out4,v30
vncipher $out5,$out5,v30
v xor $in5,$twk5,v31
vsrab $tmp,$tweak,$seven # next tweak value
v xor $twk5,$tweak,$rndkey0

```

```

vncipherlast $out0,$out0,$in0
lvx_u $in0,$x00,$inp # load next input block
vaddubm $tweak,$tweak,$tweak
vsldoi $tmp,$tmp,$tmp,15
vncipherlast $out1,$out1,$in1
lvx_u $in1,$x10,$inp
vncipherlast $out2,$out2,$in2
le?vperm $in0,$in0,$in0,$leperm
lvx_u $in2,$x20,$inp
vand $tmp,$tmp,$eighty7
vncipherlast $out3,$out3,$in3
le?vperm $in1,$in1,$in1,$leperm
lvx_u $in3,$x30,$inp
vncipherlast $out4,$out4,$in4
le?vperm $in2,$in2,$in2,$leperm
lvx_u $in4,$x40,$inp
v xor $tweak,$tweak,$tmp
vncipherlast $out5,$out5,$in5
le?vperm $in3,$in3,$in3,$leperm
lvx_u $in5,$x50,$inp
addi $inp,$inp,0x60
le?vperm $in4,$in4,$in4,$leperm
le?vperm $in5,$in5,$in5,$leperm

```

```

le?vperm $out0,$out0,$out0,$leperm
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
v xor $out0,$in0,$twk0
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
v xor $out1,$in1,$twk1
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
v xor $out2,$in2,$twk2
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
v xor $out3,$in3,$twk3
le?vperm $out5,$out5,$out5,$leperm
stvx_u $out4,$x40,$out
v xor $out4,$in4,$twk4

```

```

stvx_u $out5,$x50,$out
vxor $out5,$in5,$twk5
addi $out,$out,0x60

mtctr $rounds
beq Loop_xts_dec6x # did $len==96 borrow?

addic $len,$len,0x60
beq Lxts_dec6x_zero
cmpwi $len,0x20
blt Lxts_dec6x_one
nop
beq Lxts_dec6x_two
cmpwi $len,0x40
blt Lxts_dec6x_three
nop
beq Lxts_dec6x_four

Lxts_dec6x_five:
vxor $out0,$in1,$twk0
vxor $out1,$in2,$twk1
vxor $out2,$in3,$twk2
vxor $out3,$in4,$twk3
vxor $out4,$in5,$twk4

bl _aesp8_xts_dec5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk5 # unused tweak
vxor $twk1,$tweak,$rndkey0
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk1
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
le?vperm $out4,$out4,$out4,$leperm
stvx_u $out3,$x30,$out
stvx_u $out4,$x40,$out
addi $out,$out,0x50
bne Lxts_dec6x_steal
b Lxts_dec6x_done

.align 4
Lxts_dec6x_four:
vxor $out0,$in2,$twk0
vxor $out1,$in3,$twk1

```

```
vxor $out2,$in4,$twk2
vxor $out3,$in5,$twk3
vxor $out4,$out4,$out4
```

```
bl _aesp8_xts_dec5x
```

```
le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk4 # unused tweak
vmr $twk1,$twk5
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk5
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
le?vperm $out3,$out3,$out3,$leperm
stvx_u $out2,$x20,$out
stvx_u $out3,$x30,$out
addi $out,$out,0x40
bne Lxts_dec6x_steal
b Lxts_dec6x_done
```

```
.align 4
```

```
Lxts_dec6x_three:
```

```
vxor $out0,$in3,$twk0
vxor $out1,$in4,$twk1
vxor $out2,$in5,$twk2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4
```

```
bl _aesp8_xts_dec5x
```

```
le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk3 # unused tweak
vmr $twk1,$twk4
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk4
le?vperm $out2,$out2,$out2,$leperm
stvx_u $out1,$x10,$out
stvx_u $out2,$x20,$out
addi $out,$out,0x30
bne Lxts_dec6x_steal
b Lxts_dec6x_done
```

```
.align 4
```

```
Lxts_dec6x_two:
```

```
vxor $out0,$in4,$twk0
vxor $out1,$in5,$twk1
```

```

vxor $out2,$out2,$out2
vxor $out3,$out3,$out3
vxor $out4,$out4,$out4

bl _aesp8_xts_dec5x

le?vperm $out0,$out0,$out0,$leperm
vmr $twk0,$twk2 # unused tweak
vmr $twk1,$twk3
le?vperm $out1,$out1,$out1,$leperm
stvx_u $out0,$x00,$out # store output
vxor $out0,$in0,$twk3
stvx_u $out1,$x10,$out
addi $out,$out,0x20
bne Lxts_dec6x_steal
b Lxts_dec6x_done

.align 4
Lxts_dec6x_one:
vxor $out0,$in5,$twk0
nop
Loop_xts_dec1x:
vncipher $out0,$out0,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vncipher $out0,$out0,v25
lvx v25,$x10,$key_ # round[4]
bdnz Loop_xts_dec1x

subi r0,$taillen,1
vncipher $out0,$out0,v24

andi r0,r0,16
cmpwi $taillen,0
vncipher $out0,$out0,v25

sub $inp,$inp,r0
vncipher $out0,$out0,v26

lvx_u $in0,0,$inp
vncipher $out0,$out0,v27

addi $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
lvx v24,$x00,$key_ # re-pre-load round[1]

vncipher $out0,$out0,v29

```

```

lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $twk0,$twk0,v31

le?vperm $in0,$in0,$in0,$leperm
vncipher $out0,$out0,v30

mtctr $rounds
vncipherlast $out0,$out0,$twk0

vmr $twk0,$twk1 # unused tweak
vmr $twk1,$twk2
le?vperm $out0,$out0,$out0,$leperm
stvx_u $out0,$x00,$out # store output
addi $out,$out,0x10
vxor $out,$in0,$twk2
bne Lxts_dec6x_steal
b Lxts_dec6x_done

.align 4
Lxts_dec6x_zero:
cmpwi $taillen,0
beq Lxts_dec6x_done

lvx_u $in0,0,$inp
le?vperm $in0,$in0,$in0,$leperm
vxor $out0,$in0,$twk1
Lxts_dec6x_steal:
vncipher $out0,$out0,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vncipher $out0,$out0,v25
lvx v25,$x10,$key_ # round[4]
bdnz Lxts_dec6x_steal

add $inp,$inp,$taillen
vncipher $out0,$out0,v24

cmpwi $taillen,0
vncipher $out0,$out0,v25

lvx_u $in0,0,$inp
vncipher $out0,$out0,v26

lvsr $inpperm,0,$taillen # $in5 is no more
vncipher $out0,$out0,v27

addi $key_,$sp,$FRAME+15 # rewind $key_

```

```
vncipher $out0,$out0,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
```

```
vncipher $out0,$out0,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $twk1,$twk1,v31
```

```
le?vperm $in0,$in0,$in0,$leperm
vncipher $out0,$out0,v30
```

```
vperm $in0,$in0,$in0,$inpperm
vncipherlast $tmp,$out0,$twk1
```

```
le?vperm $out0,$tmp,$tmp,$leperm
le?stvx_u $out0,0,$out
be?stvx_u $tmp,0,$out
```

```
vxor $out0,$out0,$out0
vspltisb $out1,-1
vperm $out0,$out0,$out1,$inpperm
vsel $out0,$in0,$tmp,$out0
vxor $out0,$out0,$twk0
```

```
subi r30,$out,1
mtctr $taillen
Loop_xts_dec6x_steal:
lbzu r0,1(r30)
stb r0,16(r30)
bdnz Loop_xts_dec6x_steal
```

```
li $taillen,0
mtctr $rounds
b Loop_xts_dec1x # one more time...
```

```
.align 4
Lxts_dec6x_done:
${UCMP}i $ivp,0
beq Lxts_dec6x_ret
```

```
vxor $tweak,$twk0,$rndkey0
le?vperm $tweak,$tweak,$tweak,$leperm
stvx_u $tweak,0,$ivp
```

```
Lxts_dec6x_ret:
mtlr r11
li r10,`$FRAME+15`
li r11,`$FRAME+31`
stvx $seven,r10,$sp # wipe copies of round keys
```

```

addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32
stvx $seven,r10,$sp
addi r10,r10,32
stvx $seven,r11,$sp
addi r11,r11,32

```

```

mtspr 256,$vrsave
lvx v20,r10,$sp # ABI says so
addi r10,r10,32
lvx v21,r11,$sp
addi r11,r11,32
lvx v22,r10,$sp
addi r10,r10,32
lvx v23,r11,$sp
addi r11,r11,32
lvx v24,r10,$sp
addi r10,r10,32
lvx v25,r11,$sp
addi r11,r11,32
lvx v26,r10,$sp
addi r10,r10,32
lvx v27,r11,$sp
addi r11,r11,32
lvx v28,r10,$sp
addi r10,r10,32
lvx v29,r11,$sp
addi r11,r11,32
lvx v30,r10,$sp
lvx v31,r11,$sp
$POP r26,`$FRAME+21*16+0*$SIZE_T`($sp)
$POP r27,`$FRAME+21*16+1*$SIZE_T`($sp)
$POP r28,`$FRAME+21*16+2*$SIZE_T`($sp)
$POP r29,`$FRAME+21*16+3*$SIZE_T`($sp)
$POP r30,`$FRAME+21*16+4*$SIZE_T`($sp)
$POP r31,`$FRAME+21*16+5*$SIZE_T`($sp)
addi $sp,$sp,`$FRAME+21*16+6*$SIZE_T`
blr
.long 0

```

```

.byte 0,12,0x04,1,0x80,6,6,0
.long 0

.align 5
_esp8_xts_dec5x:
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24
lvx v24,$x20,$key_ # round[3]
addi $key_,$key_,0x20

vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
lvx v25,$x10,$key_ # round[4]
bdnz _esp8_xts_dec5x

subi r0,$taillen,1
vncipher $out0,$out0,v24
vncipher $out1,$out1,v24
vncipher $out2,$out2,v24
vncipher $out3,$out3,v24
vncipher $out4,$out4,v24

andi r0,r0,16
cmpwi $taillen,0
vncipher $out0,$out0,v25
vncipher $out1,$out1,v25
vncipher $out2,$out2,v25
vncipher $out3,$out3,v25
vncipher $out4,$out4,v25
vxor $twk0,$twk0,v31

sub $inp,$inp,r0
vncipher $out0,$out0,v26
vncipher $out1,$out1,v26
vncipher $out2,$out2,v26
vncipher $out3,$out3,v26
vncipher $out4,$out4,v26
vxor $in1,$twk1,v31

vncipher $out0,$out0,v27
lvx_u $in0,0,$inp
vncipher $out1,$out1,v27

```



```

vncipher $out2,$out2,v27
vncipher $out3,$out3,v27
vncipher $out4,$out4,v27
vxor $in2,$twk2,v31

addi $key_,$sp,$FRAME+15 # rewind $key_
vncipher $out0,$out0,v28
vncipher $out1,$out1,v28
vncipher $out2,$out2,v28
vncipher $out3,$out3,v28
vncipher $out4,$out4,v28
lvx v24,$x00,$key_ # re-pre-load round[1]
vxor $in3,$twk3,v31

vncipher $out0,$out0,v29
le?vperm $in0,$in0,$in0,$leperm
vncipher $out1,$out1,v29
vncipher $out2,$out2,v29
vncipher $out3,$out3,v29
vncipher $out4,$out4,v29
lvx v25,$x10,$key_ # re-pre-load round[2]
vxor $in4,$twk4,v31

vncipher $out0,$out0,v30
vncipher $out1,$out1,v30
vncipher $out2,$out2,v30
vncipher $out3,$out3,v30
vncipher $out4,$out4,v30

vncipherlast $out0,$out0,$twk0
vncipherlast $out1,$out1,$in1
vncipherlast $out2,$out2,$in2
vncipherlast $out3,$out3,$in3
vncipherlast $out4,$out4,$in4
mtctr $rounds
blr
    .long 0
    .byte 0,12,0x14,0,0,0,0,0
} } } }

my $const=1;
foreach(split("\n",$code)) {
    s/^(\[^\]*)\`/eval($1)/go;

# constants table endian-specific conversion
if ($const && m/^(long|byte)\s+(.)\s+(\[a-z]*)$/o) {
    my $conv=$3;

```

```

my @bytes=();

# convert to endian-agnostic format
if ($1 eq "long") {
    foreach (split(/,s*/, $2)) {
my $1 = /^0/?oct:int;
push @bytes, ($1>>24)&0xff, ($1>>16)&0xff, ($1>>8)&0xff, $1&0xff;
    }
    } else {
@bytes = map(/^0/?oct:int, split(/,s*/, $2));
    }

# little-endian conversion
if ($flavour =~ /le$/o) {
SWITCH: for($conv) {
    ^?inv/ && do { @bytes=map($_^0xf, @bytes); last; };
    ^?rev/ && do { @bytes=reverse(@bytes); last; };
}
}

#emit
print ".byte\t", join(', ', map (sprintf("0x%02x", $_), @bytes)), "\n";
next;
}
$consts=0 if (m/Lconst:/o); # end of table

# instructions prefixed with '?' are endian-specific and need
# to be adjusted accordingly...
if ($flavour =~ /le$/o) { # little-endian
    s/le\?//o or
    s/be\?/#be#/o or
    s/\?lvsr/lvsl/o or
    s/\?lvsl/lvsr/o or
    s/\?(vperm\s+v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+\,s*)/$1$3$2$4/o or
    s/\?(vsldoi\s+v[0-9]+\,s*)(v[0-9]+\,s*)(v[0-9]+\,s*)([0-9]+\,s*)/$1$3$2 16-$4/o or
    s/\?(vspltw\s+v[0-9]+\,s*)(v[0-9]+\,s*)([0-9]+)/$1$2 3-$3/o;
} else { # big-endian
    s/le\?/#le#/o or
    s/be\?//o or
    s/\?([a-z]+)/$1/o;
}

    print $_, "\n";
}

close STDOUT;

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```

* /opt/cola/permits/1337210439_1687523530.3818/0/cisccssl-fom-7-2a-202104051307-tar-gz/cisccssl-fom-7.2a.202104051307/crypto/aes/asm/aesp8-ppc.pl

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```
/*-----  
* kdf/kdf_802_11i.c - Key Derivation Function for 802.11i  
*  
* February 2015  
*  
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*-----  
*/
```

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```

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/fips_err.h

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/*

* Utilities for constant-time cryptography.
*
* Author: Emilia Kasper (emilia@openssl.org)
* Based on previous work by Bodo Moeller, Emilia Kasper, Adam Langley
* (Google).

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```

```
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```
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```

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```

```
#
```

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```

```
$L="edi";
```

```
$R="esi";
```

```
sub DES_encrypt3
```

```
{
```

```
  local($name,$enc)=@_;
```

```
  &function_begin_B($name,"");
```

```
  &push("ebx");
```

```
  &mov("ebx",&wparam(0));
```

```
  &push("ebp");
```

```
  &push("esi");
```

```
  &push("edi");
```

```
  &comment("");
```

```
  &comment("Load the data words");
```

```
  &mov($L,&DWP(0,"ebx","",0));
```

```
  &mov($R,&DWP(4,"ebx","",0));
```

```
  &stack_push(3);
```

```
  &comment("");
```

```
  &comment("IP");
```

```
  &IP_new($L,$R,"edx",0);
```

```
# put them back
```

```
if ($enc)
```

```
{
```

```
  &mov(&DWP(4,"ebx","",0),$R);
```



```

    &mov("eax",&wparam(1));
    &mov(&DWP(0,"ebx","",0),"edx");
    &mov("edi",&wparam(2));
    &mov("esi",&wparam(3));
}
else
{
    &mov(&DWP(4,"ebx","",0),$R);
    &mov("esi",&wparam(1));
    &mov(&DWP(0,"ebx","",0),"edx");
    &mov("edi",&wparam(2));
    &mov("eax",&wparam(3));
}
&mov(&swtmp(2), (DWC(($enc?"1":"0")));
&mov(&swtmp(1), "eax");
&mov(&swtmp(0), "ebx");
&call("DES_encrypt2");
&mov(&swtmp(2), (DWC(($enc?"0":"1")));
&mov(&swtmp(1), "edi");
&mov(&swtmp(0), "ebx");
&call("DES_encrypt2");
&mov(&swtmp(2), (DWC(($enc?"1":"0")));
&mov(&swtmp(1), "esi");
&mov(&swtmp(0), "ebx");
&call("DES_encrypt2");

&stack_pop(3);
&mov($L,&DWP(0,"ebx","",0));
&mov($R,&DWP(4,"ebx","",0));

&comment("");
&comment("FP");
&FP_new($L,$R,"eax",0);

&mov(&DWP(0,"ebx","",0),"eax");
&mov(&DWP(4,"ebx","",0),$R);

&pop("edi");
&pop("esi");
&pop("ebp");
&pop("ebx");
&ret();
&function_end_B($name);
}

```

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```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/dsa_locl.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/dsa/dsa_locl.h
```

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```

7.2a.202104051307/crypto/ec/ecp_mont.c

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```
/* -----  
* crypto/sha/asm/sha1-octeon.c - Cavium Octeon specific hardware assist  
* functionality that is to reside within the FIPS canister.  
*  
* January 2013  
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*/
```

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/ec/asm/ecp_nistz256-armv4.pl
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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/iOS/FIPS/ios-fips-test-app-tar-gz/HelloWorld2/HelloWorld2/ViewController.swift

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/test/fips_dsatest.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/buffer/buf_str.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/sha.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/bn_prime.h
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/buffer/buffer.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/rand.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/buffer.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/rand/rand.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/stack/stack.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/sha.h
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/des/des_ver.h
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# =====
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# =====
#
# February 2012
#
# The module implements bn_GF2m_mul_2x2 polynomial multiplication
# used in bn_gf2m.c. It's kind of low-hanging mechanical port from
# C for the time being... The subroutine runs in 37 cycles, which is
# 4.5x faster than compiler-generated code. Though comparison is
# totally unfair, because this module utilizes Galois Field Multiply
# instruction.

while (($output=shift) && ($output!~/^w[\w\-*\.\w+$/)) { }
open STDOUT,">$output";

($rp,$a1,$a0,$b1,$b0)=("A4","B4","A6","B6","A8"); # argument vector

($Alo,$Alox0,$Alox1,$Alox2,$Alox3)=map("A$_",(16..20));
($Ahi,$Ahix0,$Ahix1,$Ahix2,$Ahix3)=map("B$_",(16..20));
($B_0,$B_1,$B_2,$B_3)=("B5","A5","A7","B7");
($A,$B)=($Alo,$B_1);
$xFF="B1";

sub mul_1x1_upper {
my ($A,$B)=@_;
$code.=<<__ ;
EXTU $B,8,24,$B_2 ; smash $B to 4 bytes
|| AND $B,$xFF,$B_0
|| SHRU $B,24,$B_3
SHRU $A,16, $Ahi ; smash $A to two halfwords
|| EXTU $A,16,16,$Alo

XORMPY $Alo,$B_2,$Alox2 ; 16x8 bits multiplication
|| XORMPY $Ahi,$B_2,$Ahix2
|| EXTU $B,16,24,$B_1
XORMPY $Alo,$B_0,$Alox0
|| XORMPY $Ahi,$B_0,$Ahix0
XORMPY $Alo,$B_3,$Alox3
|| XORMPY $Ahi,$B_3,$Ahix3
XORMPY $Alo,$B_1,$Alox1
|| XORMPY $Ahi,$B_1,$Ahix1

```

```

____
}
sub mul_1x1_merged {
my ($OUTlo,$OUTHi,$A,$B)=@_;
$code.=<<____;
    EXTU $B,8,24,$B_2 ; smash $B to 4 bytes
    || AND $B,$xFF,$B_0
    || SHRU $B,24,$B_3
    SHRU $A,16, $Ahi ; smash $A to two halfwords
    || EXTU $A,16,16,$Alo

    XOR $Ahix0,$Alox2,$Ahix0
    || MV $Ahix2,$OUTHi
    || XORMPY $Alo,$B_2,$Alox2
    XORMPY $Ahi,$B_2,$Ahix2
    || EXTU $B,16,24,$B_1
    || XORMPY $Alo,$B_0,A1 ; $Alox0
    XOR $Ahix1,$Alox3,$Ahix1
    || SHL $Ahix0,16,$OUTlo
    || SHRU $Ahix0,16,$Ahix0
    XOR $Alox0,$OUTlo,$OUTlo
    || XOR $Ahix0,$OUTHi,$OUTHi
    || XORMPY $Ahi,$B_0,$Ahix0
    || XORMPY $Alo,$B_3,$Alox3
    || SHL $Alox1,8,$Alox1
    || SHL $Ahix3,8,$Ahix3
    XOR $Alox1,$OUTlo,$OUTlo
    || XOR $Ahix3,$OUTHi,$OUTHi
    || XORMPY $Ahi,$B_3,$Ahix3
    || SHL $Ahix1,24,$Alox1
    || SHRU $Ahix1,8, $Ahix1
    XOR $Alox1,$OUTlo,$OUTlo
    || XOR $Ahix1,$OUTHi,$OUTHi
    || XORMPY $Alo,$B_1,$Alox1
    || XORMPY $Ahi,$B_1,$Ahix1
    || MV A1,$Alox0
____
}
sub mul_1x1_lower {
my ($OUTlo,$OUTHi)=@_;
$code.=<<____;
;NOP
    XOR $Ahix0,$Alox2,$Ahix0
    || MV $Ahix2,$OUTHi
    NOP
    XOR $Ahix1,$Alox3,$Ahix1
    || SHL $Ahix0,16,$OUTlo
    || SHRU $Ahix0,16,$Ahix0

```

```

XOR $Alox0,$OUTlo,$OUTlo
|| XOR $Ahix0,$OUTHi,$OUTHi
|| SHL $Alox1,8,$Alox1
|| SHL $Ahix3,8,$Ahix3
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix3,$OUTHi,$OUTHi
|| SHL $Ahix1,24,$Alox1
|| SHRU $Ahix1,8, $Ahix1
XOR $Alox1,$OUTlo,$OUTlo
|| XOR $Ahix1,$OUTHi,$OUTHi
—
}
$code.=<<<___;
.text

.if .ASSEMBLER_VERSION<7000000
.asg 0,__TI_EABI__
.endif
.if __TI_EABI__
.asg bn_GF2m_mul_2x2,_bn_GF2m_mul_2x2
.endif

.global _bn_GF2m_mul_2x2
_bn_GF2m_mul_2x2:
.asmfunc
MVK 0xFF,$xFF
—
&mul_1x1_upper($a0,$b0); # a0·b0
$code.=<<<___;
|| MV $b1,$B
MV $a1,$A
—
&mul_1x1_merged("A28","B28",$A,$B); # a0·b0/a1·b1
$code.=<<<___;
|| XOR $b0,$b1,$B
XOR $a0,$a1,$A
—
&mul_1x1_merged("A31","B31",$A,$B); # a1·b1/(a0+a1)·(b0+b1)
$code.=<<<___;
XOR A28,A31,A29
|| XOR B28,B31,B29 ; a0·b0+a1·b1
—
&mul_1x1_lower("A30","B30"); # (a0+a1)·(b0+b1)
$code.=<<<___;
|| BNOP B3
XOR A29,A30,A30
|| XOR B29,B30,B30 ; (a0+a1)·(b0+b1)-a0·b0-a1·b1
XOR B28,A30,A30

```

```
|| STW A28,*${rp}[0]
XOR B30,A31,A31
|| STW A30,*${rp}[1]
STW A31,*${rp}[2]
STW B31,*${rp}[3]
.endasmfunc
```

```
print $code;
close STDOUT;
```

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```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/asm/c64xplus-gf2m.pl
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```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/sha512-s390x.pl
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/sha512-586.pl
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/sha1-thumb.pl
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/sha1-sparcv9.pl
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/sha512-sparcv9.pl
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/sha1-armv4-large.pl
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/sha1-s390x.pl
```

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/keccak1600-armv4.pl
```

* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/sha/asm/keccak1600-s390x.pl
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/sha/asm/keccak1600-avx512.pl
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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/sha/asm/keccak1600-avx2.pl
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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/ec/ecdsa_sign.c
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7.2a.202104051307/fips/ecdsa/fips_ecdsa_selftest.c

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```

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```
# void des_ncbc_encrypt(input, output, length, schedule, ivec, enc)
# des_cblock (*input);
# des_cblock (*output);
# long length;
# des_key_schedule schedule;
# des_cblock (*ivec);
# int enc;
#
# calls
# des_encrypt((DES_LONG *)tin,schedule,DES_ENCRYPT);
#
#&cbc("des_ncbc_encrypt","des_encrypt",0);
#&cbc("BF_cbc_encrypt","BF_encrypt","BF_encrypt",
# 1,4,5,3,5,-1);
#&cbc("des_ncbc_encrypt","des_encrypt","des_encrypt",
# 0,4,5,3,5,-1);
#&cbc("des_ede3_cbc_encrypt","des_encrypt3","des_decrypt3",
# 0,6,7,3,4,5);
#
# When doing a cipher that needs bigendian order,
# for encrypt, the iv is kept in bigendian form,
# while for decrypt, it is kept in little endian.
sub cbc
```

```

{
local($name,$enc_func,$dec_func,$swap,$iv_off,$enc_off,$p1,$p2,$p3)=@_ ;
# name is the function name
# enc_func and dec_func and the functions to call for encrypt/decrypt
# swap is true if byte order needs to be reversed
# iv_off is parameter number for the iv
# enc_off is parameter number for the encrypt/decrypt flag
# p1,p2,p3 are the offsets for parameters to be passed to the
# underlying calls.

&function_begin_B($name,"");
&comment("");

$in="esi";
$out="edi";
$count="ebp";

&push("ebp");
&push("ebx");
&push("esi");
&push("edi");

$data_off=4;
$data_off+=4 if ($p1 > 0);
$data_off+=4 if ($p2 > 0);
$data_off+=4 if ($p3 > 0);

&mov($count, &wparam(2)); # length

&comment("getting iv ptr from parameter $iv_off");
&mov("ebx", &wparam($iv_off)); # Get iv ptr

&mov($in, &DWP(0,"ebx","",0));# iv[0]
&mov($out, &DWP(4,"ebx","",0));# iv[1]

&push($out);
&push($in);
&push($out); # used in decrypt for iv[1]
&push($in); # used in decrypt for iv[0]

&mov("ebx", "esp"); # This is the address of tin[2]

&mov($in, &wparam(0)); # in
&mov($out, &wparam(1)); # out

# We have loaded them all, how lets push things
&comment("getting encrypt flag from parameter $enc_off");
&mov("ecx", &wparam($enc_off)); # Get enc flag

```

```

if ($p3 > 0)
{
    &comment("get and push parameter $p3");
    if ($enc_off != $p3)
    { &mov("eax", &wparam($p3)); &push("eax"); }
    else { &push("ecx"); }
}
if ($p2 > 0)
{
    &comment("get and push parameter $p2");
    if ($enc_off != $p2)
    { &mov("eax", &wparam($p2)); &push("eax"); }
    else { &push("ecx"); }
}
if ($p1 > 0)
{
    &comment("get and push parameter $p1");
    if ($enc_off != $p1)
    { &mov("eax", &wparam($p1)); &push("eax"); }
    else { &push("ecx"); }
}
&push("ebx"); # push data/iv

&cmp("ecx",0);
&jz(&label("decrypt"));

&and($count,0xffffffff8);
&mov("eax", &DWP($data_off,"esp","",0)); # load iv[0]
&mov("ebx", &DWP($data_off+4,"esp","",0)); # load iv[1]

&jz(&label("encrypt_finish"));

#####

&set_label("encrypt_loop");
# encrypt start
# "eax" and "ebx" hold iv (or the last cipher text)

&mov("ecx", &DWP(0,$in","",0)); # load first 4 bytes
&mov("edx", &DWP(4,$in","",0)); # second 4 bytes

&xor("eax", "ecx");
&xor("ebx", "edx");

&bswap("eax") if $swap;
&bswap("ebx") if $swap;

&mov(&DWP($data_off,"esp","",0), "eax"); # put in array for call

```

```

&mov(&DWP($data_off+4,"esp","",0), "ebx"); #

&call($enc_func);

&mov("eax", &DWP($data_off,"esp","",0));
&mov("ebx", &DWP($data_off+4,"esp","",0));

&bswap("eax") if $swap;
&bswap("ebx") if $swap;

&mov(&DWP(0,$out","",0),"eax");
&mov(&DWP(4,$out","",0),"ebx");

# eax and ebx are the next iv.

&add($in, 8);
&add($out, 8);

&sub($count, 8);
&jnz(&label("encrypt_loop"));

#####3
&set_label("encrypt_finish");
&mov($count, &wparam(2)); # length
&and($count, 7);
&jz(&label("finish"));
&call(&label("PIC_point"));
&set_label("PIC_point");
&blindpop("edx");
&lea("ecx",&DWP(&label("cbc_enc_jmp_table")."-".&label("PIC_point"),"edx"));
&mov($count,&DWP(0,"ecx",$count,4));
&add($count,"edx");
&xor("ecx","ecx");
&xor("edx","edx");
#&mov($count,&DWP(&label("cbc_enc_jmp_table"),"",$count,4));
&jmp_ptr($count);

&set_label("ej7");
&movb(&HB("edx"), &BP(6,$in","",0));
&shl("edx",8);
&set_label("ej6");
&movb(&HB("edx"), &BP(5,$in","",0));
&set_label("ej5");
&movb(&LB("edx"), &BP(4,$in","",0));
&set_label("ej4");
&mov("ecx", &DWP(0,$in","",0));
&jmp(&label("ejend"));
&set_label("ej3");

```

```

&movb(&HB("ecx"), &BP(2,$in,"",0));
&shl("ecx",8);
&set_label("ej2");
&movb(&HB("ecx"), &BP(1,$in,"",0));
&set_label("ej1");
&movb(&LB("ecx"), &BP(0,$in,"",0));
&set_label("ejend");

&xor("eax", "ecx");
&xor("ebx", "edx");

&bswap("eax") if $swap;
&bswap("ebx") if $swap;

&mov(&DWP($data_off,"esp","",0), "eax"); # put in array for call
&mov(&DWP($data_off+4,"esp","",0), "ebx"); #

&call($enc_func);

&mov("eax", &DWP($data_off,"esp","",0));
&mov("ebx", &DWP($data_off+4,"esp","",0));

&bswap("eax") if $swap;
&bswap("ebx") if $swap;

&mov(&DWP(0,$out,"",0), "eax");
&mov(&DWP(4,$out,"",0), "ebx");

&jmp(&label("finish"));

#####
#####
&set_label("decrypt",1);
# decrypt start
&and($count,0xffffffff8);
# The next 2 instructions are only for if the jz is taken
&mov("eax", &DWP($data_off+8,"esp","",0)); # get iv[0]
&mov("ebx", &DWP($data_off+12,"esp","",0)); # get iv[1]
&jz(&label("decrypt_finish"));

&set_label("decrypt_loop");
&mov("eax", &DWP(0,$in,"",0)); # load first 4 bytes
&mov("ebx", &DWP(4,$in,"",0)); # second 4 bytes

&bswap("eax") if $swap;
&bswap("ebx") if $swap;

&mov(&DWP($data_off,"esp","",0), "eax"); # put back

```

```

&mov(&DWP($data_off+4,"esp","",0), "ebx"); #

&call($dec_func);

&mov("eax", &DWP($data_off,"esp","",0)); # get return
&mov("ebx", &DWP($data_off+4,"esp","",0)); #

&bswap("eax") if $swap;
&bswap("ebx") if $swap;

&mov("ecx", &DWP($data_off+8,"esp","",0)); # get iv[0]
&mov("edx", &DWP($data_off+12,"esp","",0)); # get iv[1]

&xor("ecx", "eax");
&xor("edx", "ebx");

&mov("eax", &DWP(0,$in","",0)); # get old cipher text,
&mov("ebx", &DWP(4,$in","",0)); # next iv actually

&mov(&DWP(0,$out","",0), "ecx");
&mov(&DWP(4,$out","",0), "edx");

&mov(&DWP($data_off+8,"esp","",0), "eax"); # save iv
&mov(&DWP($data_off+12,"esp","",0), "ebx"); #

&add($in, 8);
&add($out, 8);

&sub($count, 8);
&jnz(&label("decrypt_loop"));
##### ENDIT #####3
&set_label("decrypt_finish");
&mov($count, &wparam(2)); # length
&and($count, 7);
&jz(&label("finish"));

&mov("eax", &DWP(0,$in","",0)); # load first 4 bytes
&mov("ebx", &DWP(4,$in","",0)); # second 4 bytes

&bswap("eax") if $swap;
&bswap("ebx") if $swap;

&mov(&DWP($data_off,"esp","",0), "eax"); # put back
&mov(&DWP($data_off+4,"esp","",0), "ebx"); #

&call($dec_func);

&mov("eax", &DWP($data_off,"esp","",0)); # get return

```

```

&mov("ebx", &DWP($data_off+4,"esp","",0)); #

&bswap("eax") if $swap;
&bswap("ebx") if $swap;

&mov("ecx", &DWP($data_off+8,"esp","",0)); # get iv[0]
&mov("edx", &DWP($data_off+12,"esp","",0)); # get iv[1]

&xor("ecx", "eax");
&xor("edx", "ebx");

# this is for when we exit
&mov("eax", &DWP(0,$in","",0)); # get old cipher text,
&mov("ebx", &DWP(4,$in","",0)); # next iv actually

&set_label("dj7");
&rotr("edx", 16);
&movb(&BP(6,$out","",0), &LB("edx"));
&shr("edx",16);
&set_label("dj6");
&movb(&BP(5,$out","",0), &HB("edx"));
&set_label("dj5");
&movb(&BP(4,$out","",0), &LB("edx"));
&set_label("dj4");
&mov(&DWP(0,$out","",0), "ecx");
&jmp(&label("djend"));
&set_label("dj3");
&rotr("ecx", 16);
&movb(&BP(2,$out","",0), &LB("ecx"));
&shl("ecx",16);
&set_label("dj2");
&movb(&BP(1,$in","",0), &HB("ecx"));
&set_label("dj1");
&movb(&BP(0,$in","",0), &LB("ecx"));
&set_label("djend");

# final iv is still in eax:ebx
&jmp(&label("finish"));

##### FINISH #####3
&set_label("finish",1);
&mov("ecx", &wparam($iv_off)); # Get iv ptr

#####
$total=16+4;
$total+=4 if ($p1 > 0);
$total+=4 if ($p2 > 0);

```



```

$total+=4 if ($p3 > 0);
&add("esp",$total);

&mov(&DWP(0,"ecx","",0), "eax"); # save iv
&mov(&DWP(4,"ecx","",0), "ebx"); # save iv

&function_end_A($name);

&align(64);
&set_label("cbc_enc_jmp_table");
&data_word("0");
&data_word(&label("ej1")."-".&label("PIC_point"));
&data_word(&label("ej2")."-".&label("PIC_point"));
&data_word(&label("ej3")."-".&label("PIC_point"));
&data_word(&label("ej4")."-".&label("PIC_point"));
&data_word(&label("ej5")."-".&label("PIC_point"));
&data_word(&label("ej6")."-".&label("PIC_point"));
&data_word(&label("ej7")."-".&label("PIC_point"));
# not used
#&set_label("cbc_dec_jmp_table",1);
#&data_word("0");
#&data_word(&label("dj1")."-".&label("PIC_point"));
#&data_word(&label("dj2")."-".&label("PIC_point"));
#&data_word(&label("dj3")."-".&label("PIC_point"));
#&data_word(&label("dj4")."-".&label("PIC_point"));
#&data_word(&label("dj5")."-".&label("PIC_point"));
#&data_word(&label("dj6")."-".&label("PIC_point"));
#&data_word(&label("dj7")."-".&label("PIC_point"));
&align(64);

&function_end_B($name);

}

```

```
1;
```

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```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/perlasm/cbc.pl
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/asn1/asn1.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/asn1.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/rsa/rsa_crpt.c
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/err/err.h

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/ec/ecp_smpl.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/ec/ecp_nist.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/ec/ec_cvt.c
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```

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* kdf/kdf_ikev2.c - Key Derivation Functions for IKEv2

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- * /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-

```
7.2a.202104051307/crypto/rsa/rsa_x931.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
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```
$0 =~ m/(.*[\\])[^\\]+$/; $dir=$1;
push(@INC,"${dir}","${dir}../../perlasm");
require "x86asm.pl";
```

```
$output = pop;
```

```
&asm_init($ARGV[0]);
```

```
&bn_mul_comba("bn_mul_comba8",8);
```

```
&bn_mul_comba("bn_mul_comba4",4);
```

```
&bn_sqr_comba("bn_sqr_comba8",8);
```

```
&bn_sqr_comba("bn_sqr_comba4",4);
```



```

&asm_finish());

sub mul_add_c
{
local($a,$ai,$b,$bi,$c0,$c1,$c2,$pos,$i,$na,$nb)=@_;

# pos == -1 if eax and edx are pre-loaded, 0 to load from next
# words, and 1 if load return value

&comment("mul a[$ai]*b[$bi]");

# "eax" and "edx" will always be pre-loaded.
# &mov("eax",&DWP($ai*4,$a,"",0)) ;
# &mov("edx",&DWP($bi*4,$b,"",0));

&mul("edx");
&add($c0,"eax");
&mov("eax",&DWP(($na)*4,$a,"",0)) if $pos == 0; # laod next a
&mov("eax",&wparam(0)) if $pos > 0; # load r[]
###
&adc($c1,"edx");
&mov("edx",&DWP(($nb)*4,$b,"",0)) if $pos == 0; # laod next b
&mov("edx",&DWP(($nb)*4,$b,"",0)) if $pos == 1; # laod next b
###
&adc($c2,0);
# is pos > 1, it means it is the last loop
&mov(&DWP($i*4,"eax","",0),$c0) if $pos > 0; # save r[];
&mov("eax",&DWP(($na)*4,$a,"",0)) if $pos == 1; # laod next a
}

sub sqr_add_c
{
local($r,$a,$ai,$bi,$c0,$c1,$c2,$pos,$i,$na,$nb)=@_;

# pos == -1 if eax and edx are pre-loaded, 0 to load from next
# words, and 1 if load return value

&comment("sqr a[$ai]*a[$bi]");

# "eax" and "edx" will always be pre-loaded.
# &mov("eax",&DWP($ai*4,$a,"",0)) ;
# &mov("edx",&DWP($bi*4,$b,"",0));

if ($ai == $bi)
{ &mul("eax");}
else

```

```

    { &mul("edx");}
    &add($c0,"eax");
    &mov("eax",&DWP(($na)*4,$a,"",0)) if $pos == 0; # load next a
    ###
    &adc($c1,"edx");
    &mov("edx",&DWP(($nb)*4,$a,"",0)) if ($pos == 1) && ($na != $nb);
    ###
    &adc($c2,0);
    # is pos > 1, it means it is the last loop
    &mov(&DWP($i*4,$r,"",0),$c0) if $pos > 0; # save r[];
    &mov("eax",&DWP(($na)*4,$a,"",0)) if $pos == 1; # load next b
}

```

```
sub sqr_add_c2
```

```

{
local($r,$a,$ai,$bi,$c0,$c1,$c2,$pos,$i,$na,$nb)=@_ ;

# pos == -1 if eax and edx are pre-loaded, 0 to load from next
# words, and 1 if load return value

```

```
&comment("sqr a[$ai]*a[$bi]");
```

```
# "eax" and "edx" will always be pre-loaded.
```

```
# &mov("eax",&DWP($ai*4,$a,"",0)) ;
```

```
# &mov("edx",&DWP($bi*4,$a,"",0));
```

```
if ($ai == $bi)
```

```
{ &mul("eax");}
```

```
else
```

```
{ &mul("edx");}
```

```
&add("eax","eax");
```

```
###
```

```
&adc("edx","edx");
```

```
###
```

```
&adc($c2,0);
```

```
&add($c0,"eax");
```

```
&adc($c1,"edx");
```

```
&mov("eax",&DWP(($na)*4,$a,"",0)) if $pos == 0; # load next a
```

```
&mov("eax",&DWP(($na)*4,$a,"",0)) if $pos == 1; # load next b
```

```
&adc($c2,0);
```

```
&mov(&DWP($i*4,$r,"",0),$c0) if $pos > 0; # save r[];
```

```
&mov("edx",&DWP(($nb)*4,$a,"",0)) if ($pos <= 1) && ($na != $nb);
```

```
###
```

```
}
```

```
sub bn_mul_comba
```

```
{
```

```
local($name,$num)=@_;
```

```

local($a,$b,$c0,$c1,$c2);
local($i,$as,$ae,$bs,$be,$ai,$bi);
local($tot,$end);

&function_begin_B($name,"");

$c0="ebx";
$c1="ecx";
$c2="ebp";
$a="esi";
$b="edi";

$as=0;
$ae=0;
$bs=0;
$be=0;
$tot=$num+$num-1;

&push("esi");
  &mov($a,&wparam(1));
&push("edi");
  &mov($b,&wparam(2));
&push("ebp");
&push("ebx");

&xor($c0,$c0);
  &mov("eax",&DWP(0,$a,"",0)); # load the first word
&xor($c1,$c1);
  &mov("edx",&DWP(0,$b,"",0)); # load the first second

for ($i=0; $i<$tot; $i++)
{
  $ai=$as;
  $bi=$bs;
  $end=$be+1;

  &comment("##### Calculate word $i");

  for ($j=$bs; $j<$end; $j++)
  {
    &xor($c2,$c2) if ($j == $bs);
    if (($j+1) == $end)
    {
      $v=1;
      $v=2 if (($i+1) == $tot);
    }
    else
    { $v=0; }
  }
}

```

```

if (($j+1) != $end)
{
$na=($ai-1);
$nb=($bi+1);
}
else
{
$na=$as+($i < ($num-1));
$nb=$bs+($i >= ($num-1));
}
#printf STDERR "[${ai},${bi}] -> [${na},${nb}]\n";
&mul_add_c($a,$ai,$b,$bi,$c0,$c1,$c2,$v,$i,$na,$nb);
if ($v)
{
&comment("saved r[${i}]");
# &mov("eax",&wparam(0));
# &mov(&DWP($i*4,"eax","",0),$c0);
($c0,$c1,$c2)=( $c1,$c2,$c0);
}
$ai--;
$bi++;
}
$as++ if ($i < ($num-1));
$ae++ if ($i >= ($num-1));

$bs++ if ($i >= ($num-1));
$be++ if ($i < ($num-1));
}
&comment("save r[${i}]");
# &mov("eax",&wparam(0));
&mov(&DWP($i*4,"eax","",0),$c0);

&pop("ebx");
&pop("ebp");
&pop("edi");
&pop("esi");
&ret();
&function_end_B($name);
}

sub bn_sqr_comba
{
local($name,$num)=@_;
local($r,$a,$c0,$c1,$c2)=@_;
local($i,$as,$ae,$bs,$be,$ai,$bi);
local($b,$tot,$end,$half);

&function_begin_B($name,"");

```

```

$c0="ebx";
$c1="ecx";
$c2="ebp";
$a="esi";
$r="edi";

&push("esi");
&push("edi");
&push("ebp");
&push("ebx");
&mov($r,&wparam(0));
&mov($a,&wparam(1));
&xor($c0,$c0);
&xor($c1,$c1);
&mov("eax",&DWP(0,$a,"",0)); # load the first word

```

```

$as=0;
$ae=0;
$bs=0;
$be=0;
$tot=$num+$num-1;

```

```

for ($i=0; $i<$tot; $i++)
{
    $ai=$as;
    $bi=$bs;
    $end=$be+1;

```

```

&comment("##### Calculate word $i");
for ($j=$bs; $j<$end; $j++)
{
    &xor($c2,$c2) if ($j == $bs);
    if (($ai-1) < ($bi+1))
    {
        $v=1;
        $v=2 if ($i+1) == $tot;
    }
    else
    { $v=0; }
    if (!$v)
    {
        $na=$ai-1;
        $nb=$bi+1;
    }
    else
    {
        $na=$as+($i < ($num-1));

```

```

    $nb=$bs+($i >= ($num-1));
    }
    if ($ai == $bi)
    {
        &sqr_add_c($r,$a,$ai,$bi,
            $c0,$c1,$c2,$v,$i,$na,$nb);
    }
    else
    {
        &sqr_add_c2($r,$a,$ai,$bi,
            $c0,$c1,$c2,$v,$i,$na,$nb);
    }
    if ($v)
    {
        &comment("saved r[$i]");
        #&mov(&DWP($i*4,$r,"",0),$c0);
        ($c0,$c1,$c2)=$c1,$c2,$c0);
        last;
    }
    $ai--;
    $bi++;
    }
    $as++ if ($i < ($num-1));
    $ae++ if ($i >= ($num-1));

    $bs++ if ($i >= ($num-1));
    $be++ if ($i < ($num-1));
    }
    &mov(&DWP($i*4,$r,"",0),$c0);
    &pop("ebx");
    &pop("ebp");
    &pop("edi");
    &pop("esi");
    &ret();
    &function_end_B($name);
}

```

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```

```
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7.2a.202104051307/include/openssl/modes.h
```

```
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```

```
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```

```
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```
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```

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```
$0 =~ m/(.*[\\])[^\\]+$/; $dir=$1;
```

```
push(@INC,"${dir}","${dir}../perlasm");
```

```
require "x86asm.pl";
```

```
$output = pop;
```

```
&asm_init($ARGV[0]);
```

```
$sse2=0;
```

```
for (@ARGV) { $sse2=1 if (/DOPENSSL_IA32_SSE2/); }
```

```
&external_label("OPENSSL_ia32cap_P") if ($sse2);
```

```
&bn_mul_add_words("bn_mul_add_words");
```

```
&bn_mul_words("bn_mul_words");
```

```
&bn_sqr_words("bn_sqr_words");
```

```
&bn_div_words("bn_div_words");
```

```
&bn_add_words("bn_add_words");
```

```
&bn_sub_words("bn_sub_words");
```

```
&bn_sub_part_words("bn_sub_part_words");
```

```
&asm_finish();
```

```

sub bn_mul_add_words
{
local($name)=@_;

&function_begin_B($name,$sse2?"EXTRN\t_OPENSSL_ia32cap_P:DWORD:"");

$r="eax";
$a="edx";
$c="ecx";

if ($sse2) {
&picmeup("eax","OPENSSL_ia32cap_P");
&bt(&DWP(0,"eax"),26);
&jnc(&label("maw_non_sse2"));

&mov($r,&wparam(0));
&mov($a,&wparam(1));
&mov($c,&wparam(2));
&movd("mm0",&wparam(3)); # mm0 = w
&pxor("mm1","mm1"); # mm1 = carry_in
&jmp(&label("maw_sse2_entry"));

&set_label("maw_sse2_unrolled",16);
&movd("mm3",&DWP(0,$r,"",0)); # mm3 = r[0]
&paddq("mm1","mm3"); # mm1 = carry_in + r[0]
&movd("mm2",&DWP(0,$a,"",0)); # mm2 = a[0]
&pmuludq("mm2","mm0"); # mm2 = w*a[0]
&movd("mm4",&DWP(4,$a,"",0)); # mm4 = a[1]
&pmuludq("mm4","mm0"); # mm4 = w*a[1]
&movd("mm6",&DWP(8,$a,"",0)); # mm6 = a[2]
&pmuludq("mm6","mm0"); # mm6 = w*a[2]
&movd("mm7",&DWP(12,$a,"",0)); # mm7 = a[3]
&pmuludq("mm7","mm0"); # mm7 = w*a[3]
&paddq("mm1","mm2"); # mm1 = carry_in + r[0] + w*a[0]
&movd("mm3",&DWP(4,$r,"",0)); # mm3 = r[1]
&paddq("mm3","mm4"); # mm3 = r[1] + w*a[1]
&movd("mm5",&DWP(8,$r,"",0)); # mm5 = r[2]
&paddq("mm5","mm6"); # mm5 = r[2] + w*a[2]
&movd("mm4",&DWP(12,$r,"",0)); # mm4 = r[3]
&paddq("mm7","mm4"); # mm7 = r[3] + w*a[3]
&movd(&DWP(0,$r,"",0),"mm1");
&movd("mm2",&DWP(16,$a,"",0)); # mm2 = a[4]
&pmuludq("mm2","mm0"); # mm2 = w*a[4]
&psrlq("mm1",32); # mm1 = carry0
&movd("mm4",&DWP(20,$a,"",0)); # mm4 = a[5]
&pmuludq("mm4","mm0"); # mm4 = w*a[5]
&paddq("mm1","mm3"); # mm1 = carry0 + r[1] + w*a[1]

```

```

&movd("mm6",&DWP(24,$a,"",0)); # mm6 = a[6]
&pmuludq("mm6","mm0"); # mm6 = w*a[6]
&movd(&DWP(4,$r,"",0),"mm1");
&psrlq("mm1",32); # mm1 = carry1
&movd("mm3",&DWP(28,$a,"",0)); # mm3 = a[7]
&add($a,32);
&pmuludq("mm3","mm0"); # mm3 = w*a[7]
&paddq("mm1","mm5"); # mm1 = carry1 + r[2] + w*a[2]
&movd("mm5",&DWP(16,$r,"",0)); # mm5 = r[4]
&paddq("mm2","mm5"); # mm2 = r[4] + w*a[4]
&movd(&DWP(8,$r,"",0),"mm1");
&psrlq("mm1",32); # mm1 = carry2
&paddq("mm1","mm7"); # mm1 = carry2 + r[3] + w*a[3]
&movd("mm5",&DWP(20,$r,"",0)); # mm5 = r[5]
&paddq("mm4","mm5"); # mm4 = r[5] + w*a[5]
&movd(&DWP(12,$r,"",0),"mm1");
&psrlq("mm1",32); # mm1 = carry3
&paddq("mm1","mm2"); # mm1 = carry3 + r[4] + w*a[4]
&movd("mm5",&DWP(24,$r,"",0)); # mm5 = r[6]
&paddq("mm6","mm5"); # mm6 = r[6] + w*a[6]
&movd(&DWP(16,$r,"",0),"mm1");
&psrlq("mm1",32); # mm1 = carry4
&paddq("mm1","mm4"); # mm1 = carry4 + r[5] + w*a[5]
&movd("mm5",&DWP(28,$r,"",0)); # mm5 = r[7]
&paddq("mm3","mm5"); # mm3 = r[7] + w*a[7]
&movd(&DWP(20,$r,"",0),"mm1");
&psrlq("mm1",32); # mm1 = carry5
&paddq("mm1","mm6"); # mm1 = carry5 + r[6] + w*a[6]
&movd(&DWP(24,$r,"",0),"mm1");
&psrlq("mm1",32); # mm1 = carry6
&paddq("mm1","mm3"); # mm1 = carry6 + r[7] + w*a[7]
&movd(&DWP(28,$r,"",0),"mm1");
&lea($r,&DWP(32,$r));
&psrlq("mm1",32); # mm1 = carry_out

&sub($c,8);
&jz(&label("maw_sse2_exit"));
&set_label("maw_sse2_entry");
&test($c,0xffffffff8);
&jnz(&label("maw_sse2_unrolled"));

&set_label("maw_sse2_loop",4);
&movd("mm2",&DWP(0,$a)); # mm2 = a[i]
&movd("mm3",&DWP(0,$r)); # mm3 = r[i]
&pmuludq("mm2","mm0"); # a[i] *= w
&lea($a,&DWP(4,$a));
&paddq("mm1","mm3"); # carry += r[i]
&paddq("mm1","mm2"); # carry += a[i]*w

```

```

&movd(&DWP(0,$r),"mm1"); # r[i] = carry_low
&sub($c,1);
&psrlq("mm1",32); # carry = carry_high
&lea($r,&DWP(4,$r));
&jnz(&label("maw_sse2_loop"));
&set_label("maw_sse2_exit");
&movd("eax","mm1"); # c = carry_out
&emms();
&ret();

&set_label("maw_non_sse2",16);
}

```

```

# function_begin prologue

```

```

&push("ebp");
&push("ebx");
&push("esi");
&push("edi");

```

```

&comment("");
$Low="eax";
$High="edx";
$a="ebx";
$w="ebp";
$r="edi";
$c="esi";

```

```

&xor($c,$c); # clear carry
&mov($r,&wparam(0)); #

```

```

&mov("ecx",&wparam(2)); #
&mov($a,&wparam(1)); #

```

```

&and("ecx",0xffffffff); # num / 8
&mov($w,&wparam(3)); #

```

```

&push("ecx"); # Up the stack for a tmp variable

```

```

&jz(&label("maw_finish"));

```

```

&set_label("maw_loop",16);

```

```

for ($i=0; $i<32; $i+=4)

```

```

{
&comment("Round $i");

```

```

&mov("eax",&DWP($i,$a)); # *a
&mul($w); # *a * w

```

```

&add("eax",%c); # L(t)+= c
&adc("edx",0); # H(t)+=carry
&add("eax",&DWP($i,$r)); # L(t)+= *r
&adc("edx",0); # H(t)+=carry
&mov(&DWP($i,$r),"eax"); # *r= L(t);
&mov(%c,"edx"); # c= H(t);
}

&comment("");
&sub("ecx",8);
&lea($a,&DWP(32,$a));
&lea($r,&DWP(32,$r));
&jnz(&label("maw_loop"));

&set_label("maw_finish",0);
&mov("ecx",&wparam(2)); # get num
&and("ecx",7);
&jnz(&label("maw_finish2")); # helps branch prediction
&jmp(&label("maw_end"));

&set_label("maw_finish2",1);
for ($i=0; $i<7; $i++)
{
&comment("Tail Round $i");
&mov("eax",&DWP($i*4,$a)); # *a
&mul($w); # *a * w
&add("eax",%c); # L(t)+=c
&adc("edx",0); # H(t)+=carry
&add("eax",&DWP($i*4,$r)); # L(t)+= *r
&adc("edx",0); # H(t)+=carry
&dec("ecx") if ($i != 7-1);
&mov(&DWP($i*4,$r),"eax"); # *r= L(t);
&mov(%c,"edx"); # c= H(t);
&jz(&label("maw_end")) if ($i != 7-1);
}
&set_label("maw_end",0);
&mov("eax",%c);

&pop("ecx"); # clear variable from

&function_end($name);
}

sub bn_mul_words
{
local($name)=@_;

&function_begin_B($name,$sse2?"EXTRN\t_OPENSSL_ia32cap_P:DWORD:");

```

```

$r="eax";
$a="edx";
$c="ecx";

if ($sse2) {
    &picmeup("eax","OPENSSL_ia32cap_P");
    &bt(&DWP(0,"eax"),26);
    &jnc(&label("mw_non_sse2"));

    &mov($r,&wparam(0));
    &mov($a,&wparam(1));
    &mov($c,&wparam(2));
    &movd("mm0",&wparam(3)); # mm0 = w
    &pxor("mm1","mm1"); # mm1 = carry = 0

    &set_label("mw_sse2_loop",16);
    &movd("mm2",&DWP(0,$a)); # mm2 = a[i]
    &pmuludq("mm2","mm0"); # a[i] *= w
    &lea($a,&DWP(4,$a));
    &paddq("mm1","mm2"); # carry += a[i]*w
    &movd(&DWP(0,$r),"mm1"); # r[i] = carry_low
    &sub($c,1);
    &psrlq("mm1",32); # carry = carry_high
    &lea($r,&DWP(4,$r));
    &jnz(&label("mw_sse2_loop"));

    &movd("eax","mm1"); # return carry
    &emms();
    &ret();
    &set_label("mw_non_sse2",16);
}

# function_begin prologue
&push("ebp");
&push("ebx");
&push("esi");
&push("edi");

&comment("");
$Low="eax";
$High="edx";
$a="ebx";
$w="ecx";
$r="edi";
$c="esi";
$num="ebp";

```



```

&xor($c,$c); # clear carry
&mov($r,&wparam(0)); #
&mov($a,&wparam(1)); #
&mov($num,&wparam(2)); #
&mov($w,&wparam(3)); #

&and($num,0xffffffff8); # num / 8
&jz(&label("mw_finish"));

&set_label("mw_loop",0);
for ($i=0; $i<32; $i+=4)
{
&comment("Round $i");

&mov("eax",&DWP($i,$a,"",0)); # *a
&mul($w); # *a * w
&add("eax",$c); # L(t)+=c
# XXX

&adc("edx",0); # H(t)+=carry
&mov(&DWP($i,$r,"",0),"eax"); # *r= L(t);

&mov($c,"edx"); # c= H(t);
}

&comment("");
&add($a,32);
&add($r,32);
&sub($num,8);
&jz(&label("mw_finish"));
&jmp(&label("mw_loop"));

&set_label("mw_finish",0);
&mov($num,&wparam(2)); # get num
&and($num,7);
&jnz(&label("mw_finish2"));
&jmp(&label("mw_end"));

&set_label("mw_finish2",1);
for ($i=0; $i<7; $i++)
{
&comment("Tail Round $i");
&mov("eax",&DWP($i*4,$a,"",0));# *a
&mul($w); # *a * w
&add("eax",$c); # L(t)+=c
# XXX
&adc("edx",0); # H(t)+=carry
&mov(&DWP($i*4,$r,"",0),"eax");# *r= L(t);

```

```

&mov($c,"edx"); # c= H(t);
&dec($num) if ($i != 7-1);
&jz(&label("mw_end")) if ($i != 7-1);
}
&set_label("mw_end",0);
&mov("eax",$c);

&function_end($name);
}

sub bn_sqr_words
{
local($name)=@_;

&function_begin_B($name,$sse2?"EXTRN\t_OPENSSL_ia32cap_P:DWORD:");

$r="eax";
$a="edx";
$c="ecx";

if ($sse2) {
&picmeup("eax","OPENSSL_ia32cap_P");
&bt(&DWP(0,"eax"),26);
&jnc(&label("sqr_non_sse2"));

&mov($r,&wparam(0));
&mov($a,&wparam(1));
&mov($c,&wparam(2));

&set_label("sqr_sse2_loop",16);
&movd("mm0",&DWP(0,$a)); # mm0 = a[i]
&pmuludq("mm0","mm0"); # a[i] *= a[i]
&lea($a,&DWP(4,$a)); # a++
&movq(&QWP(0,$r),"mm0"); # r[i] = a[i]*a[i]
&sub($c,1);
&lea($r,&DWP(8,$r)); # r += 2
&jnz(&label("sqr_sse2_loop"));

&emms();
&ret();
&set_label("sqr_non_sse2",16);
}

# function_begin prologue
&push("ebp");
&push("ebx");
&push("esi");
&push("edi");

```

```

&comment("");
$r="esi";
$a="edi";
$num="ebx";

&mov($r,&wparam(0)); #
&mov($a,&wparam(1)); #
&mov($num,&wparam(2)); #

&and($num,0xffffffff8); # num / 8
&jz(&label("sw_finish"));

&set_label("sw_loop",0);
for ($i=0; $i<32; $i+=4)
{
&comment("Round $i");
&mov("eax",&DWP($i,$a,"",0)); # *a
# XXX
&mul("eax"); # *a * *a
&mov(&DWP($i*2,$r,"",0),"eax"); #
&mov(&DWP($i*2+4,$r,"",0),"edx");#
}

&comment("");
&add($a,32);
&add($r,64);
&sub($num,8);
&jnz(&label("sw_loop"));

&set_label("sw_finish",0);
&mov($num,&wparam(2)); # get num
&and($num,7);
&jz(&label("sw_end"));

for ($i=0; $i<7; $i++)
{
&comment("Tail Round $i");
&mov("eax",&DWP($i*4,$a,"",0)); # *a
# XXX
&mul("eax"); # *a * *a
&mov(&DWP($i*8,$r,"",0),"eax"); #
&dec($num) if ($i != 7-1);
&mov(&DWP($i*8+4,$r,"",0),"edx");
&jz(&label("sw_end")) if ($i != 7-1);
}
&set_label("sw_end",0);

```

```

&function_end($name);
}

sub bn_div_words
{
local($name)=@_;

&function_begin_B($name,"");
&mov("edx",&wparam(0)); #
&mov("eax",&wparam(1)); #
&mov("ecx",&wparam(2)); #
&div("ecx");
&ret();
&function_end_B($name);
}

sub bn_add_words
{
local($name)=@_;

&function_begin($name,"");

&comment("");
$a="esi";
$b="edi";
$c="eax";
$r="ebx";
$tmp1="ecx";
$tmp2="edx";
$num="ebp";

&mov($r,&wparam(0)); # get r
&mov($a,&wparam(1)); # get a
&mov($b,&wparam(2)); # get b
&mov($num,&wparam(3)); # get num
&xor($c,$c); # clear carry
&and($num,0xffffffff); # num / 8

&jz(&label("aw_finish"));

&set_label("aw_loop",0);
for ($i=0; $i<8; $i++)
{
&comment("Round $i");

&mov($tmp1,&DWP($i*4,$a,"",0)); # *a
&mov($tmp2,&DWP($i*4,$b,"",0)); # *b
&add($tmp1,$c);

```

```

    &mov($c,0);
    &adc($c,$c);
    &add($tmp1,$tmp2);
    &adc($c,0);
    &mov(&DWP($i*4,$r,"",0),$tmp1); # *r
}

```

```

&comment("");
&add($a,32);
&add($b,32);
&add($r,32);
&sub($num,8);
&jnz(&label("aw_loop"));

```

```

&set_label("aw_finish",0);
&mov($num,&wparam(3)); # get num
&and($num,7);
&jz(&label("aw_end"));

```

```

for ($i=0; $i<7; $i++)
{
    &comment("Tail Round $i");
    &mov($tmp1,&DWP($i*4,$a,"",0)); # *a
    &mov($tmp2,&DWP($i*4,$b,"",0));# *b
    &add($tmp1,$c);
    &mov($c,0);
    &adc($c,$c);
    &add($tmp1,$tmp2);
    &adc($c,0);
    &dec($num) if ($i != 6);
    &mov(&DWP($i*4,$r,"",0),$tmp1); # *r
    &jz(&label("aw_end")) if ($i != 6);
}
&set_label("aw_end",0);

```

```

# &mov("eax",$c); # $c is "eax"

```

```

&function_end($name);
}

```

```

sub bn_sub_words
{
    local($name)=@_;

```

```

&function_begin($name,"");

```

```

&comment("");
$a="esi";

```

```

$b="edi";
$c="eax";
$r="ebx";
$tmp1="ecx";
$tmp2="edx";
$num="ebp";

&mov($r,&wparam(0)); # get r
&mov($a,&wparam(1)); # get a
&mov($b,&wparam(2)); # get b
&mov($num,&wparam(3)); # get num
&xor($c,$c); # clear carry
&and($num,0xffffffff); # num / 8

&jz(&label("aw_finish"));

&set_label("aw_loop",0);
for ($i=0; $i<8; $i++)
{
&comment("Round $i");

&mov($tmp1,&DWP($i*4,$a,"",0)); # *a
&mov($tmp2,&DWP($i*4,$b,"",0)); # *b
&sub($tmp1,$c);
&mov($c,0);
&adc($c,$c);
&sub($tmp1,$tmp2);
&adc($c,0);
&mov(&DWP($i*4,$r,"",0),$tmp1); # *r
}

&comment("");
&add($a,32);
&add($b,32);
&add($r,32);
&sub($num,8);
&jnz(&label("aw_loop"));

&set_label("aw_finish",0);
&mov($num,&wparam(3)); # get num
&and($num,7);
&jz(&label("aw_end"));

for ($i=0; $i<7; $i++)
{
&comment("Tail Round $i");
&mov($tmp1,&DWP($i*4,$a,"",0)); # *a
&mov($tmp2,&DWP($i*4,$b,"",0)); # *b

```

```

&sub($tmp1,$c);
&mov($c,0);
&adc($c,$c);
&sub($tmp1,$tmp2);
&adc($c,0);
&dec($num) if ($i != 6);
&mov(&DWP($i*4,$r,"",0),$tmp1); # *r
&jz(&label("aw_end")) if ($i != 6);
}
&set_label("aw_end",0);

# &mov("eax",$c); # $c is "eax"

&function_end($name);
}

sub bn_sub_part_words
{
local($name)=@_;

&function_begin($name,"");

&comment("");
$a="esi";
$b="edi";
$c="eax";
$r="ebx";
$tmp1="ecx";
$tmp2="edx";
$num="ebp";

&mov($r,&wparam(0)); # get r
&mov($a,&wparam(1)); # get a
&mov($b,&wparam(2)); # get b
&mov($num,&wparam(3)); # get num
&xor($c,$c); # clear carry
&and($num,0xffffffff); # num / 8

&jz(&label("aw_finish"));

&set_label("aw_loop",0);
for ($i=0; $i<8; $i++)
{
&comment("Round $i");

&mov($tmp1,&DWP($i*4,$a,"",0)); # *a
&mov($tmp2,&DWP($i*4,$b,"",0)); # *b
&sub($tmp1,$c);

```

```

    &mov($c,0);
    &adc($c,$c);
    &sub($tmp1,$tmp2);
    &adc($c,0);
    &mov(&DWP($i*4,$r,"",0),$tmp1); # *r
}

```

```

&comment("");
&add($a,32);
&add($b,32);
&add($r,32);
&sub($num,8);
&jnz(&label("aw_loop"));

```

```

&set_label("aw_finish",0);
&mov($num,&wparam(3)); # get num
&and($num,7);
&jz(&label("aw_end"));

```

```

for ($i=0; $i<7; $i++)
{
    &comment("Tail Round $i");
    &mov($tmp1,&DWP(0,$a,"",0)); # *a
    &mov($tmp2,&DWP(0,$b,"",0));# *b
    &sub($tmp1,$c);
    &mov($c,0);
    &adc($c,$c);
    &sub($tmp1,$tmp2);
    &adc($c,0);
    &mov(&DWP(0,$r,"",0),$tmp1); # *r
    &add($a, 4);
    &add($b, 4);
    &add($r, 4);
    &dec($num) if ($i != 6);
    &jz(&label("aw_end")) if ($i != 6);
}
&set_label("aw_end",0);

```

```

&cmp(&wparam(4),0);
&je(&label("pw_end"));

```

```

&mov($num,&wparam(4)); # get dl
&cmp($num,0);
&je(&label("pw_end"));
&jge(&label("pw_pos"));

```

```

&comment("pw_neg");
&mov($tmp2,0);

```



```

&sub($tmp2,$num);
&mov($num,$tmp2);
&and($num,0xffffffff8); # num / 8
&jz(&label("pw_neg_finish"));

&set_label("pw_neg_loop",0);
for ($i=0; $i<8; $i++)
{
    &comment("dl<0 Round $i");

    &mov($tmp1,0);
    &mov($tmp2,&DWP($i*4,$b,"",0)); # *b
    &sub($tmp1,$c);
    &mov($c,0);
    &adc($c,$c);
    &sub($tmp1,$tmp2);
    &adc($c,0);
    &mov(&DWP($i*4,$r,"",0),$tmp1); # *r
}

&comment("");
&add($b,32);
&add($r,32);
&sub($num,8);
&jnz(&label("pw_neg_loop"));

&set_label("pw_neg_finish",0);
&mov($tmp2,&wparam(4)); # get dl
&mov($num,0);
&sub($num,$tmp2);
&and($num,7);
&jz(&label("pw_end"));

for ($i=0; $i<7; $i++)
{
    &comment("dl<0 Tail Round $i");
    &mov($tmp1,0);
    &mov($tmp2,&DWP($i*4,$b,"",0));# *b
    &sub($tmp1,$c);
    &mov($c,0);
    &adc($c,$c);
    &sub($tmp1,$tmp2);
    &adc($c,0);
    &dec($num) if ($i != 6);
    &mov(&DWP($i*4,$r,"",0),$tmp1); # *r
    &jz(&label("pw_end")) if ($i != 6);
}

```

```

&jmp(&label("pw_end"));

&set_label("pw_pos",0);

&and($num,0xffffffff8); # num / 8
&jz(&label("pw_pos_finish"));

&set_label("pw_pos_loop",0);

for ($i=0; $i<8; $i++)
{
    &comment("dl>0 Round $i");

    &mov($tmp1,&DWP($i*4,$a,"",0)); # *a
    &sub($tmp1,$c);
    &mov(&DWP($i*4,$r,"",0),$tmp1); # *r
    &jnc(&label("pw_nc".$i));
}

&comment("");
&add($a,32);
&add($r,32);
&sub($num,8);
&jnz(&label("pw_pos_loop"));

&set_label("pw_pos_finish",0);
&mov($num,&wparam(4)); # get dl
&and($num,7);
&jz(&label("pw_end"));

for ($i=0; $i<7; $i++)
{
    &comment("dl>0 Tail Round $i");
    &mov($tmp1,&DWP($i*4,$a,"",0)); # *a
    &sub($tmp1,$c);
    &mov(&DWP($i*4,$r,"",0),$tmp1); # *r
    &jnc(&label("pw_tail_nc".$i));
    &dec($num) if ($i != 6);
    &jz(&label("pw_end")) if ($i != 6);
}
&mov($c,1);
&jmp(&label("pw_end"));

&set_label("pw_nc_loop",0);
for ($i=0; $i<8; $i++)
{
    &mov($tmp1,&DWP($i*4,$a,"",0)); # *a
    &mov(&DWP($i*4,$r,"",0),$tmp1); # *r

```

```

    &set_label("pw_nc".$i,0);
}

&comment("");
&add($a,32);
&add($r,32);
&sub($num,8);
&jnz(&label("pw_nc_loop"));

&mov($num,&wparam(4)); # get dl
&and($num,7);
&jz(&label("pw_nc_end"));

for ($i=0; $i<7; $i++)
{
    &mov($tmp1,&DWP($i*4,$a,"",0)); # *a
    &mov(&DWP($i*4,$r,"",0),$tmp1); # *r
    &set_label("pw_tail_nc".$i,0);
    &dec($num) if ($i != 6);
    &jz(&label("pw_nc_end")) if ($i != 6);
}

&set_label("pw_nc_end",0);
&mov($c,0);

&set_label("pw_end",0);

# &mov("eax",$c); # $c is "eax"

&function_end($name);
}

```

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```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/asm/bn-586.pl
```

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/*-----

* fips/kdf/fips_kdf_802_11i.c - 802_11i KDF vector tests

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# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
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# =====
#
# [ABI- and endian-neutral] Keccak-1600 for C64x.
#
# June 2017.
#
# This is straightforward KECCAK_1X_ALT variant (see sha/keccak1600.c)
# with bit interleaving. 64-bit values are simply split between A- and
# B-files, with A-file holding least significant halves. This works
# out perfectly, because all operations including cross-communications
# [in rotate operations] are always complementary. Performance is
# [incredible for a 32-bit processor] 10.9 cycles per processed byte
# for r=1088, which corresponds to SHA3-256. This is >15x faster than
# compiler-generated KECCAK_1X_ALT code, and >10x than other variants.
# On average processor ends up issuing ~4.5 instructions per cycle...

my @A = map([ $_, ($_+1), ($_+2), ($_+3), ($_+4) ], (5,10,16,21,26));

```

```

$A[1][4] = 31; # B14 is reserved, A14 is used as iota[]
($A[3][0], $A[4][1]) = ($A[4][1], $A[3][0]);
my @C = (0.4, $A[3][0], $A[4][0]);
my $iotas = "A14";

my @rhotates = ([ 0, 1, 62, 28, 27 ],
                [ 36, 44, 6, 55, 20 ],
                [ 3, 10, 43, 25, 39 ],
                [ 41, 45, 15, 21, 8 ],
                [ 18, 2, 61, 56, 14 ]);

sub ROL64 {
    my ($src, $rot, $dst, $p) = @_ ;

    if ($rot & 1) {
$code.=<<__ ;
$P ROTL B$src, $rot/2+1, A$dst
|| ROTL A$src, $rot/2, B$dst
_____
    } else {
$code.=<<__ ;
$P ROTL A$src, $rot/2, A$dst
|| ROTL B$src, $rot/2, B$dst
_____
    }
}

#####
# Stack frame layout
#
# SP--->+-----+-----+
# | | |
# +1--->+-----+-----+<- -9 below 4 slots are used by KeccakF1600_int
# | | |
# +2--->+-----+-----+<- -8
# | | |
# +3--->+-----+-----+<- -7
# | A2 | A3 | A3:A2 are preserved by KeccakF1600_int
# +4--->+-----+-----+<- -6
# | B2 | B3 | B3:B2 are preserved by KeccakF1600_int
# +5--->+-----+-----+<- -5 below is ABI-compliant layout
# | A10 | A11 |
# +6--->+-----+-----+<- -4
# | A12 | A13 |
# +7--->+-----+-----+<- -3
# | A14 | B3 |
# +8--->+-----+-----+<- -2
# | B10 | B11 |

```

```

# +9-->+-----+-----+<- -1
#   | B12 | B13 |
#   +-----+-----+<---FP
#   | A15 |
#   +-----+--

$code.=<<<___;
.text

.if .ASSEMBLER_VERSION<7000000
.asg 0,__TI_EABI__
.endif
.if __TI_EABI__
.nocmp
.asg KeccakF1600,_KeccakF1600
.asg SHA3_absorb,_SHA3_absorb
.asg SHA3_squeeze,_SHA3_squeeze
.endif

.asg B3,RA
.asg A15,FP
.asg B15,SP

.align 32
_KeccakF1600_int:
.asmfnc
STDW A3:A2,*FP[-7]
|| STDW B3:B2,*SP[4]
_KeccakF1600_cheat:
.if __TI_EABI__
ADDKPC _KeccakF1600_int,B0
|| MVKL $PCR_OFFSET(iotas,_KeccakF1600_int),$iotas
MVKH $PCR_OFFSET(iotas,_KeccakF1600_int),$iotas
.else
ADDKPC _KeccakF1600_int,B0
|| MVKL (iotas-_KeccakF1600_int),$iotas
MVKH (iotas-_KeccakF1600_int),$iotas
.endif
ADD B0,$iotas,$iotas
loop?:
XOR A$A[0][2],A$A[1][2],A$C[2] ; Theta
|| XOR B$A[0][2],B$A[1][2],B$C[2]
|| XOR A$A[0][3],A$A[1][3],A$C[3]
|| XOR B$A[0][3],B$A[1][3],B$C[3]
|| XOR A$A[0][0],A$A[1][0],A$C[0]
|| XOR B$A[0][0],B$A[1][0],B$C[0]
XOR A$A[2][2],A$C[2],A$C[2]
|| XOR B$A[2][2],B$C[2],B$C[2]

```

```

|| XOR A$A[2][3],A$C[3],A$C[3]
|| XOR B$A[2][3],B$C[3],B$C[3]
|| XOR A$A[2][0],A$C[0],A$C[0]
|| XOR B$A[2][0],B$C[0],B$C[0]
XOR A$A[3][2],A$C[2],A$C[2]
|| XOR B$A[3][2],B$C[2],B$C[2]
|| XOR A$A[3][3],A$C[3],A$C[3]
|| XOR B$A[3][3],B$C[3],B$C[3]
|| XOR A$A[3][0],A$C[0],A$C[0]
|| XOR B$A[3][0],B$C[0],B$C[0]
XOR A$A[4][2],A$C[2],A$C[2]
|| XOR B$A[4][2],B$C[2],B$C[2]
|| XOR A$A[4][3],A$C[3],A$C[3]
|| XOR B$A[4][3],B$C[3],B$C[3]
|| XOR A$A[4][0],A$C[0],A$C[0]
|| XOR B$A[4][0],B$C[0],B$C[0]
XOR A$A[0][4],A$A[1][4],A$C[4]
|| XOR B$A[0][4],B$A[1][4],B$C[4]
|| XOR A$A[0][1],A$A[1][1],A$C[1]
|| XOR B$A[0][1],B$A[1][1],B$C[1]
|| STDW A$A[3][0]:A$A[4][0],*SP[1] ; offload some data
STDW B$A[3][0]:B$A[4][0],*SP[2]
|| XOR A$A[2][4],A$C[4],A$C[4]
|| XOR B$A[2][4],B$C[4],B$C[4]
|| XOR A$A[2][1],A$C[1],A$C[1]
|| XOR B$A[2][1],B$C[1],B$C[1]
|| ROTL B$C[2],1,A$C[5] ; ROL64(C[2],1)
|| ROTL A$C[2],0,B$C[5]
XOR A$A[3][4],A$C[4],A$C[4]
|| XOR B$A[3][4],B$C[4],B$C[4]
|| XOR A$A[3][1],A$C[1],A$C[1]
|| XOR B$A[3][1],B$C[1],B$C[1]
|| ROTL B$C[3],1,A$C[6] ; ROL64(C[3],1)
|| ROTL A$C[3],0,B$C[6]
XOR A$A[4][4],A$C[4],A$C[4]
|| XOR B$A[4][4],B$C[4],B$C[4]
|| XOR A$A[4][1],A$C[1],A$C[1]
|| XOR B$A[4][1],B$C[1],B$C[1]
|| XOR A$C[0],A$C[5],A$C[5] ; C[0] ^ ROL64(C[2],1)
|| XOR B$C[0],B$C[5],B$C[5]
XOR A$C[5],A$A[0][1],A$A[0][1]
|| XOR B$C[5],B$A[0][1],B$A[0][1]
|| XOR A$C[5],A$A[1][1],A$A[1][1]
|| XOR B$C[5],B$A[1][1],B$A[1][1]
|| XOR A$C[5],A$A[2][1],A$A[2][1]
|| XOR B$C[5],B$A[2][1],B$A[2][1]
XOR A$C[5],A$A[3][1],A$A[3][1]
|| XOR B$C[5],B$A[3][1],B$A[3][1]

```

```

|| XOR A$C[5],A$A[4][1],A$A[4][1]
|| XOR B$C[5],B$A[4][1],B$A[4][1]
|| ROTL B$C[4],1,A$C[5] ; ROL64(C[4],1)
|| ROTL A$C[4],0,B$C[5]
|| XOR A$C[1],A$C[6],A$C[6] ; C[1] ^ ROL64(C[3],1)
|| XOR B$C[1],B$C[6],B$C[6]
XOR A$C[6],A$A[0][2],A$A[0][2]
|| XOR B$C[6],B$A[0][2],B$A[0][2]
|| XOR A$C[6],A$A[1][2],A$A[1][2]
|| XOR B$C[6],B$A[1][2],B$A[1][2]
|| XOR A$C[6],A$A[2][2],A$A[2][2]
|| XOR B$C[6],B$A[2][2],B$A[2][2]
|| ROTL B$C[1],1,A$C[1] ; ROL64(C[1],1)
|| ROTL A$C[1],0,B$C[1]
XOR A$C[6],A$A[3][2],A$A[3][2]
|| XOR B$C[6],B$A[3][2],B$A[3][2]
|| XOR A$C[6],A$A[4][2],A$A[4][2]
|| XOR B$C[6],B$A[4][2],B$A[4][2]
|| ROTL B$C[0],1,A$C[6] ; ROL64(C[0],1)
|| ROTL A$C[0],0,B$C[6]
|| XOR A$C[5],A$C[2],A$C[2] ; C[2] ^= ROL64(C[4],1)
|| XOR B$C[5],B$C[2],B$C[2]
XOR A$C[2],A$A[0][3],A$A[0][3]
|| XOR B$C[2],B$A[0][3],B$A[0][3]
|| XOR A$C[2],A$A[1][3],A$A[1][3]
|| XOR B$C[2],B$A[1][3],B$A[1][3]
|| XOR A$C[2],A$A[2][3],A$A[2][3]
|| XOR B$C[2],B$A[2][3],B$A[2][3]
XOR A$C[6],A$C[3],A$C[3] ; C[3] ^= ROL64(C[0],1)
|| XOR B$C[6],B$C[3],B$C[3]
|| LDDW *FP[-9],A$A[3][0]:A$A[4][0] ; restore offloaded data
|| LDDW *SP[2],B$A[3][0]:B$A[4][0]
|| XOR A$C[2],A$A[3][3],A$A[3][3]
|| XOR B$C[2],B$A[3][3],B$A[3][3]
XOR A$C[2],A$A[4][3],A$A[4][3]
|| XOR B$C[2],B$A[4][3],B$A[4][3]
|| XOR A$C[3],A$A[0][4],A$A[0][4]
|| XOR B$C[3],B$A[0][4],B$A[0][4]
|| XOR A$C[3],A$A[1][4],A$A[1][4]
|| XOR B$C[3],B$A[1][4],B$A[1][4]
XOR A$C[3],A$A[2][4],A$A[2][4]
|| XOR B$C[3],B$A[2][4],B$A[2][4]
|| XOR A$C[3],A$A[3][4],A$A[3][4]
|| XOR B$C[3],B$A[3][4],B$A[3][4]
|| XOR A$C[3],A$A[4][4],A$A[4][4]
|| XOR B$C[3],B$A[4][4],B$A[4][4]
XOR A$C[1],A$C[4],A$C[4] ; C[4] ^= ROL64(C[1],1)
|| XOR B$C[1],B$C[4],B$C[4]

```



```

|| MV A$A[0][1],A$C[1] ; Rho+Pi, "early start"
|| MV B$A[0][1],B$C[1]

—

&ROL64 ($A[1][1],$rhotates[1][1],$A[0][1],"");
$code.=<<<___;
XOR A$C[4],A$A[0][0],A$A[0][0]
|| XOR B$C[4],B$A[0][0],B$A[0][0]
|| XOR A$C[4],A$A[1][0],A$A[1][0]
|| XOR B$C[4],B$A[1][0],B$A[1][0]
|| MV A$A[0][3],A$C[3]
|| MV B$A[0][3],B$C[3]

—

&ROL64 ($A[3][3],$rhotates[3][3],$A[0][3],"");
$code.=<<<___;
XOR A$C[4],A$A[2][0],A$A[2][0]
|| XOR B$C[4],B$A[2][0],B$A[2][0]
|| XOR A$C[4],A$A[3][0],A$A[3][0]
|| XOR B$C[4],B$A[3][0],B$A[3][0]
|| MV A$A[0][2],A$C[2]
|| MV B$A[0][2],B$C[2]

—

&ROL64 ($A[2][2],$rhotates[2][2],$A[0][2],"");
$code.=<<<___;
XOR A$C[4],A$A[4][0],A$A[4][0]
|| XOR B$C[4],B$A[4][0],B$A[4][0]
|| MV A$A[0][4],A$C[4]
|| MV B$A[0][4],B$C[4]

—

&ROL64 ($A[4][4],$rhotates[4][4],$A[0][4],"");

&ROL64 ($A[1][4],$rhotates[1][4],$A[1][1]);
$code.=<<<___;
|| LDW *$ {iotas} ++[2],A$C[0]

—

&ROL64 ($A[2][3],$rhotates[2][3],$A[2][2]);
$code.=<<<___;
|| LDW *$ {iotas} [-1],B$C[0]

—

&ROL64 ($A[3][2],$rhotates[3][2],$A[3][3]);
&ROL64 ($A[4][1],$rhotates[4][1],$A[4][4]);

&ROL64 ($A[4][2],$rhotates[4][2],$A[1][4]);
&ROL64 ($A[3][4],$rhotates[3][4],$A[2][3]);
&ROL64 ($A[2][1],$rhotates[2][1],$A[3][2]);
&ROL64 ($A[1][3],$rhotates[1][3],$A[4][1]);

&ROL64 ($A[2][4],$rhotates[2][4],$A[4][2]);
&ROL64 ($A[4][3],$rhotates[4][3],$A[3][4]);

```

```

&ROL64 ($A[1][2], $rhotates[1][2], $A[2][1]);
&ROL64 ($A[3][1], $rhotates[3][1], $A[1][3]);

&ROL64 ($A[4][0], $rhotates[4][0], $A[2][4]);
&ROL64 ($A[3][0], $rhotates[3][0], $A[4][3]);
&ROL64 ($A[2][0], $rhotates[2][0], $A[1][2]);
&ROL64 ($A[1][0], $rhotates[1][0], $A[3][1]);

#&ROL64 ($C[3], $rhotates[0][3], $A[1][0]); # moved below
&ROL64 ($C[1], $rhotates[0][1], $A[2][0]);
&ROL64 ($C[4], $rhotates[0][4], $A[3][0]);
&ROL64 ($C[2], $rhotates[0][2], $A[4][0]);
$code.=<<___;
|| ANDN $A[0][2], $A[0][1], $C[4] ; Chi+Iota
|| ANDN $B[0][2], $B[0][1], $C[4]
|| ANDN $A[0][3], $A[0][2], $C[1]
|| ANDN $B[0][3], $B[0][2], $C[1]
|| ANDN $A[0][4], $A[0][3], $C[2]
|| ANDN $B[0][4], $B[0][3], $C[2]

___
&ROL64 ($C[3], $rhotates[0][3], $A[1][0]);
$code.=<<___;
|| ANDN $A[0][0], $A[0][4], $C[3]
|| ANDN $B[0][0], $B[0][4], $C[3]
|| XOR $C[4], $A[0][0], $A[0][0]
|| XOR $C[4], $B[0][0], $B[0][0]
|| ANDN $A[0][1], $A[0][0], $C[4]
|| ANDN $B[0][1], $B[0][0], $C[4]
XOR $C[1], $A[0][1], $A[0][1]
|| XOR $C[1], $B[0][1], $B[0][1]
|| XOR $C[2], $A[0][2], $A[0][2]
|| XOR $C[2], $B[0][2], $B[0][2]
|| XOR $C[3], $A[0][3], $A[0][3]
|| XOR $C[3], $B[0][3], $B[0][3]
XOR $C[4], $A[0][4], $A[0][4]
|| XOR $C[4], $B[0][4], $B[0][4]
|| XOR $C[0], $A[0][0], $A[0][0] ; A[0][0] ^= iotas[i++];
|| XOR $C[0], $B[0][0], $B[0][0]
|| EXTU $iotas, 24, 24, A0 ; A0 is $C[0], as we done?

ANDN $A[1][2], $A[1][1], $C[4]
|| ANDN $B[1][2], $B[1][1], $C[4]
|| ANDN $A[1][3], $A[1][2], $C[1]
|| ANDN $B[1][3], $B[1][2], $C[1]
|| ANDN $A[1][4], $A[1][3], $C[2]
|| ANDN $B[1][4], $B[1][3], $C[2]
ANDN $A[1][0], $A[1][4], $C[3]
|| ANDN $B[1][0], $B[1][4], $C[3]

```

|| XOR A\$C[4],A\$A[1][0],A\$A[1][0]
|| XOR B\$C[4],B\$A[1][0],B\$A[1][0]
|| ANDN A\$A[1][1],A\$A[1][0],A\$C[4]
|| ANDN B\$A[1][1],B\$A[1][0],B\$C[4]
XOR A\$C[1],A\$A[1][1],A\$A[1][1]
|| XOR B\$C[1],B\$A[1][1],B\$A[1][1]
|| XOR A\$C[2],A\$A[1][2],A\$A[1][2]
|| XOR B\$C[2],B\$A[1][2],B\$A[1][2]
|| XOR A\$C[3],A\$A[1][3],A\$A[1][3]
|| XOR B\$C[3],B\$A[1][3],B\$A[1][3]
XOR A\$C[4],A\$A[1][4],A\$A[1][4]
|| XOR B\$C[4],B\$A[1][4],B\$A[1][4]

|| ANDN A\$A[2][2],A\$A[2][1],A\$C[4]
|| ANDN B\$A[2][2],B\$A[2][1],B\$C[4]
|| ANDN A\$A[2][3],A\$A[2][2],A\$C[1]
|| ANDN B\$A[2][3],B\$A[2][2],B\$C[1]
ANDN A\$A[2][4],A\$A[2][3],A\$C[2]
|| ANDN B\$A[2][4],B\$A[2][3],B\$C[2]
|| ANDN A\$A[2][0],A\$A[2][4],A\$C[3]
|| ANDN B\$A[2][0],B\$A[2][4],B\$C[3]
|| XOR A\$C[4],A\$A[2][0],A\$A[2][0]
|| XOR B\$C[4],B\$A[2][0],B\$A[2][0]
ANDN A\$A[2][1],A\$A[2][0],A\$C[4]
|| ANDN B\$A[2][1],B\$A[2][0],B\$C[4]
|| XOR A\$C[1],A\$A[2][1],A\$A[2][1]
|| XOR B\$C[1],B\$A[2][1],B\$A[2][1]
|| XOR A\$C[2],A\$A[2][2],A\$A[2][2]
|| XOR B\$C[2],B\$A[2][2],B\$A[2][2]
XOR A\$C[3],A\$A[2][3],A\$A[2][3]
|| XOR B\$C[3],B\$A[2][3],B\$A[2][3]
|| XOR A\$C[4],A\$A[2][4],A\$A[2][4]
|| XOR B\$C[4],B\$A[2][4],B\$A[2][4]

ANDN A\$A[3][2],A\$A[3][1],A\$C[4]
|| ANDN B\$A[3][2],B\$A[3][1],B\$C[4]
|| ANDN A\$A[3][3],A\$A[3][2],A\$C[1]
|| ANDN B\$A[3][3],B\$A[3][2],B\$C[1]
|| ANDN A\$A[3][4],A\$A[3][3],A\$C[2]
|| ANDN B\$A[3][4],B\$A[3][3],B\$C[2]
ANDN A\$A[3][0],A\$A[3][4],A\$C[3]
|| ANDN B\$A[3][0],B\$A[3][4],B\$C[3]
|| XOR A\$C[4],A\$A[3][0],A\$A[3][0]
|| XOR B\$C[4],B\$A[3][0],B\$A[3][0]
|| ANDN A\$A[3][1],A\$A[3][0],A\$C[4]
|| ANDN B\$A[3][1],B\$A[3][0],B\$C[4]
XOR A\$C[1],A\$A[3][1],A\$A[3][1]
|| XOR B\$C[1],B\$A[3][1],B\$A[3][1]

```

|| XOR A$C[2],A$A[3][2],A$A[3][2]
|| XOR B$C[2],B$A[3][2],B$A[3][2]
|| XOR A$C[3],A$A[3][3],A$A[3][3]
|[A0] BNOP loop?
XOR B$C[3],B$A[3][3],B$A[3][3]
|| XOR A$C[4],A$A[3][4],A$A[3][4]
|| XOR B$C[4],B$A[3][4],B$A[3][4]
|[!A0] LDDW *FP[-7],A3:A2
|[!A0] LDDW *SP[4], RA:B2

```

```

ANDN A$A[4][2],A$A[4][1],A$C[4]
|| ANDN B$A[4][2],B$A[4][1],B$C[4]
|| ANDN A$A[4][3],A$A[4][2],A$C[1]
|| ANDN B$A[4][3],B$A[4][2],B$C[1]
|| ANDN A$A[4][4],A$A[4][3],A$C[2]
|| ANDN B$A[4][4],B$A[4][3],B$C[2]
ANDN A$A[4][0],A$A[4][4],A$C[3]
|| ANDN B$A[4][0],B$A[4][4],B$C[3]
|| XOR A$C[4],A$A[4][0],A$A[4][0]
|| XOR B$C[4],B$A[4][0],B$A[4][0]
|| ANDN A$A[4][1],A$A[4][0],A$C[4]
|| ANDN B$A[4][1],B$A[4][0],B$C[4]
XOR A$C[1],A$A[4][1],A$A[4][1]
|| XOR B$C[1],B$A[4][1],B$A[4][1]
|| XOR A$C[2],A$A[4][2],A$A[4][2]
|| XOR B$C[2],B$A[4][2],B$A[4][2]
|| XOR A$C[3],A$A[4][3],A$A[4][3]
|| XOR B$C[3],B$A[4][3],B$A[4][3]
XOR A$C[4],A$A[4][4],A$A[4][4]
|| XOR B$C[4],B$A[4][4],B$A[4][4]
;===== branch to loop? is taken here

```

BNOP RA,5

.endasmfunc

.newblock

.global _KeccakF1600

.align 32

_KeccakF1600:

.asmfunc stack_usage(80)

STW FP,*SP--(80) ; save frame pointer

|| MV SP,FP

STDW B13:B12,*SP[9]

|| STDW A13:A12,*FP[-4]

STDW B11:B10,*SP[8]

|| STDW A11:A10,*FP[-5]

STW RA,*SP[15]

|| STW A14,*FP[-6]

```
|| MV A4,A2
|| ADD 4,A4,B2
```

```
LDW *A2++[2],A$A[0][0] ; load A[5][5]
|| LDW *B2++[2],B$A[0][0]
LDW *A2++[2],A$A[0][1]
|| LDW *B2++[2],B$A[0][1]
LDW *A2++[2],A$A[0][2]
|| LDW *B2++[2],B$A[0][2]
LDW *A2++[2],A$A[0][3]
|| LDW *B2++[2],B$A[0][3]
LDW *A2++[2],A$A[0][4]
|| LDW *B2++[2],B$A[0][4]
```

```
LDW *A2++[2],A$A[1][0]
|| LDW *B2++[2],B$A[1][0]
LDW *A2++[2],A$A[1][1]
|| LDW *B2++[2],B$A[1][1]
LDW *A2++[2],A$A[1][2]
|| LDW *B2++[2],B$A[1][2]
LDW *A2++[2],A$A[1][3]
|| LDW *B2++[2],B$A[1][3]
LDW *A2++[2],A$A[1][4]
|| LDW *B2++[2],B$A[1][4]
```

```
LDW *A2++[2],A$A[2][0]
|| LDW *B2++[2],B$A[2][0]
LDW *A2++[2],A$A[2][1]
|| LDW *B2++[2],B$A[2][1]
LDW *A2++[2],A$A[2][2]
|| LDW *B2++[2],B$A[2][2]
LDW *A2++[2],A$A[2][3]
|| LDW *B2++[2],B$A[2][3]
LDW *A2++[2],A$A[2][4]
|| LDW *B2++[2],B$A[2][4]
```

```
LDW *A2++[2],A$A[3][0]
|| LDW *B2++[2],B$A[3][0]
LDW *A2++[2],A$A[3][1]
|| LDW *B2++[2],B$A[3][1]
LDW *A2++[2],A$A[3][2]
|| LDW *B2++[2],B$A[3][2]
LDW *A2++[2],A$A[3][3]
|| LDW *B2++[2],B$A[3][3]
LDW *A2++[2],A$A[3][4]
|| LDW *B2++[2],B$A[3][4]
|| BNOP _KeccakF1600_int
```

```

ADDKPC ret?,RA
|| LDW *A2++[2],A$A[4][0]
|| LDW *B2++[2],B$A[4][0]
LDW *A2++[2],A$A[4][1]
|| LDW *B2++[2],B$A[4][1]
LDW *A2++[2],A$A[4][2]
|| LDW *B2++[2],B$A[4][2]
LDW *A2++[2],A$A[4][3]
|| LDW *B2++[2],B$A[4][3]
LDW *A2,A$A[4][4]
|| LDW *B2,B$A[4][4]
|| ADDK -192,A2 ; rewind
|| ADDK -192,B2

```

```

.align 16

```

```

ret?:

```

```

STW A$A[0][0],*A2++[2] ; store A[5][5]
|| STW B$A[0][0],*B2++[2]
STW A$A[0][1],*A2++[2]
|| STW B$A[0][1],*B2++[2]
STW A$A[0][2],*A2++[2]
|| STW B$A[0][2],*B2++[2]
STW A$A[0][3],*A2++[2]
|| STW B$A[0][3],*B2++[2]
STW A$A[0][4],*A2++[2]
|| STW B$A[0][4],*B2++[2]

```

```

STW A$A[1][0],*A2++[2]
|| STW B$A[1][0],*B2++[2]
STW A$A[1][1],*A2++[2]
|| STW B$A[1][1],*B2++[2]
STW A$A[1][2],*A2++[2]
|| STW B$A[1][2],*B2++[2]
STW A$A[1][3],*A2++[2]
|| STW B$A[1][3],*B2++[2]
STW A$A[1][4],*A2++[2]
|| STW B$A[1][4],*B2++[2]

```

```

STW A$A[2][0],*A2++[2]
|| STW B$A[2][0],*B2++[2]
STW A$A[2][1],*A2++[2]
|| STW B$A[2][1],*B2++[2]
STW A$A[2][2],*A2++[2]
|| STW B$A[2][2],*B2++[2]
STW A$A[2][3],*A2++[2]
|| STW B$A[2][3],*B2++[2]
STW A$A[2][4],*A2++[2]
|| STW B$A[2][4],*B2++[2]

```

```
STW A$A[3][0],*A2++[2]
|| STW B$A[3][0],*B2++[2]
STW A$A[3][1],*A2++[2]
|| STW B$A[3][1],*B2++[2]
STW A$A[3][2],*A2++[2]
|| STW B$A[3][2],*B2++[2]
STW A$A[3][3],*A2++[2]
|| STW B$A[3][3],*B2++[2]
STW A$A[3][4],*A2++[2]
|| STW B$A[3][4],*B2++[2]
```

```
LDW *SP[15],RA
|| LDW *FP[-6],A14
```

```
STW A$A[4][0],*A2++[2]
|| STW B$A[4][0],*B2++[2]
STW A$A[4][1],*A2++[2]
|| STW B$A[4][1],*B2++[2]
STW A$A[4][2],*A2++[2]
|| STW B$A[4][2],*B2++[2]
STW A$A[4][3],*A2++[2]
|| STW B$A[4][3],*B2++[2]
STW A$A[4][4],*A2
|| STW B$A[4][4],*B2
|| ADDK -192,A2 ; rewind
```

```
MV A2,A4 ; return original A4
|| LDDW *SP[8], B11:B10
|| LDDW *FP[-5],A11:A10
LDDW *SP[9], B13:B12
|| LDDW *FP[-4],A13:A12
|| BNOP RA
LDW *++SP(80),FP ; restore frame pointer
NOP 4 ; wait till FP is committed
.endasmfunc
```

```
.newblock
.asg B2,BSZ
.asg A2,INP
.asg A3,LEN
.global _SHA3_absorb
.align 32
_SHA3_absorb:
.asmfunc stack_usage(80)
STW FP,*SP--(80) ; save frame pointer
|| MV SP,FP
STDW B13:B12,*SP[9]
```

```
|| STDW A13:A12,*FP[-4]
STDW B11:B10,*SP[8]
|| STDW A11:A10,*FP[-5]
STW RA, *SP[15]
|| STW A14,*FP[-6]

STW A4,*SP[1] ; save A[][]
|| MV B4,INP ; reassign arguments
|| MV A6,LEN
|| MV B6,BSZ
|| ADD 4,A4,B4
```

```
LDW *A4++[2],A$A[0][0] ; load A[5][5]
|| LDW *B4++[2],B$A[0][0]
LDW *A4++[2],A$A[0][1]
|| LDW *B4++[2],B$A[0][1]
LDW *A4++[2],A$A[0][2]
|| LDW *B4++[2],B$A[0][2]
LDW *A4++[2],A$A[0][3]
|| LDW *B4++[2],B$A[0][3]
LDW *A4++[2],A$A[0][4]
|| LDW *B4++[2],B$A[0][4]
```

```
LDW *A4++[2],A$A[1][0]
|| LDW *B4++[2],B$A[1][0]
LDW *A4++[2],A$A[1][1]
|| LDW *B4++[2],B$A[1][1]
LDW *A4++[2],A$A[1][2]
|| LDW *B4++[2],B$A[1][2]
LDW *A4++[2],A$A[1][3]
|| LDW *B4++[2],B$A[1][3]
LDW *A4++[2],A$A[1][4]
|| LDW *B4++[2],B$A[1][4]
```

```
LDW *A4++[2],A$A[2][0]
|| LDW *B4++[2],B$A[2][0]
LDW *A4++[2],A$A[2][1]
|| LDW *B4++[2],B$A[2][1]
LDW *A4++[2],A$A[2][2]
|| LDW *B4++[2],B$A[2][2]
LDW *A4++[2],A$A[2][3]
|| LDW *B4++[2],B$A[2][3]
LDW *A4++[2],A$A[2][4]
|| LDW *B4++[2],B$A[2][4]
```

```
LDW *A4++[2],A$A[3][0]
|| LDW *B4++[2],B$A[3][0]
LDW *A4++[2],A$A[3][1]
```



```

|| LDW *B4++[2],B$A[3][1]
LDW *A4++[2],A$A[3][2]
|| LDW *B4++[2],B$A[3][2]
LDW *A4++[2],A$A[3][3]
|| LDW *B4++[2],B$A[3][3]
LDW *A4++[2],A$A[3][4]
|| LDW *B4++[2],B$A[3][4]

```

```

LDW *A4++[2],A$A[4][0]
|| LDW *B4++[2],B$A[4][0]
LDW *A4++[2],A$A[4][1]
|| LDW *B4++[2],B$A[4][1]
LDW *A4++[2],A$A[4][2]
|| LDW *B4++[2],B$A[4][2]
LDW *A4++[2],A$A[4][3]
|| LDW *B4++[2],B$A[4][3]
LDW *A4,A$A[4][4]
|| LDW *B4,B$A[4][4]
|| ADDKPC loop?,RA
STDW RA:BSZ,*SP[4]

```

loop?:

```

CMPLTU LEN,BSZ,A0 ; len < bsz?
|| SHRU BSZ,3,BSZ
[A0] BNOP ret?
|[A0] ZERO BSZ
|[A0] LDW *SP[1],A2 ; pull A[][]
[BSZ] LDNDW *INP++,A1:A0
|[BSZ] SUB LEN,8,LEN
|[BSZ] SUB BSZ,1,BSZ
NOP 4

```

—

```

for ($y = 0; $y < 5; $y++) {
  for ($x = 0; $x < ($y<4 ? 5 : 4); $x++) {
$code.=<<____;
.if .BIG_ENDIAN
SWAP2 A0,A1
|| SWAP2 A1,A0
SWAP4 A0,A0
SWAP4 A1,A1
|[!BSZ]BNOP _KeccakF1600_cheap
|[!BSZ]STDW LEN:INP,*SP[3]
|| DEAL A0,A0
.else
[!BSZ]BNOP _KeccakF1600_cheap
|[!BSZ]STDW LEN:INP,*SP[3]
|| DEAL A0,A0
.endif

```

```

[BSZ] LDNDW *INP++,A1:A0
|| DEAL A1,A1
[BSZ] SUB LEN,8,LEN
|[BSZ] SUB BSZ,1,BSZ
PACK2 A1,A0,A0
|| PACKH2 A1,A0,A1
XOR A0,A$A[$y][$x],A$A[$y][$x]
XOR A1,B$A[$y][$x],B$A[$y][$x]
—
}
}
$code.=<<___;
.if .BIG_ENDIAN
SWAP2 A0,A1
|| SWAP2 A1,A0
SWAP4 A0,A0
SWAP4 A1,A1
.endif
BNOP _KeccakF1600_cheap
|| STDW LEN:INP,*SP[3]
|| DEAL A0,A0
DEAL A1,A1
NOP
PACK2 A1,A0,A0
|| PACKH2 A1,A0,A1
XOR A0,A$A[4][4],A$A[4][4]
XOR A1,B$A[4][4],B$A[4][4]

.align 16
ret?:
MV LEN,A4 ; return value
|| ADD 4,A2,B2

STW A$A[0][0],*A2++[2] ; store A[5][5]
|| STW B$A[0][0],*B2++[2]
STW A$A[0][1],*A2++[2]
|| STW B$A[0][1],*B2++[2]
STW A$A[0][2],*A2++[2]
|| STW B$A[0][2],*B2++[2]
STW A$A[0][3],*A2++[2]
|| STW B$A[0][3],*B2++[2]
STW A$A[0][4],*A2++[2]
|| STW B$A[0][4],*B2++[2]

STW A$A[1][0],*A2++[2]
|| STW B$A[1][0],*B2++[2]
STW A$A[1][1],*A2++[2]
|| STW B$A[1][1],*B2++[2]

```

```
STW A$A[1][2],*A2++[2]
|| STW B$A[1][2],*B2++[2]
STW A$A[1][3],*A2++[2]
|| STW B$A[1][3],*B2++[2]
STW A$A[1][4],*A2++[2]
|| STW B$A[1][4],*B2++[2]
```

```
STW A$A[2][0],*A2++[2]
|| STW B$A[2][0],*B2++[2]
STW A$A[2][1],*A2++[2]
|| STW B$A[2][1],*B2++[2]
STW A$A[2][2],*A2++[2]
|| STW B$A[2][2],*B2++[2]
STW A$A[2][3],*A2++[2]
|| STW B$A[2][3],*B2++[2]
STW A$A[2][4],*A2++[2]
|| STW B$A[2][4],*B2++[2]
```

```
LDW *SP[15],RA
|| LDW *FP[-6],A14
```

```
STW A$A[3][0],*A2++[2]
|| STW B$A[3][0],*B2++[2]
STW A$A[3][1],*A2++[2]
|| STW B$A[3][1],*B2++[2]
STW A$A[3][2],*A2++[2]
|| STW B$A[3][2],*B2++[2]
STW A$A[3][3],*A2++[2]
|| STW B$A[3][3],*B2++[2]
STW A$A[3][4],*A2++[2]
|| STW B$A[3][4],*B2++[2]
```

```
LDDW *SP[8], B11:B10
|| LDDW *FP[-5],A11:A10
LDDW *SP[9], B13:B12
|| LDDW *FP[-4],A13:A12
BNOP RA
|| LDW *++SP(80),FP ; restore frame pointer
```

```
STW A$A[4][0],*A2++[2]
|| STW B$A[4][0],*B2++[2]
STW A$A[4][1],*A2++[2]
|| STW B$A[4][1],*B2++[2]
STW A$A[4][2],*A2++[2]
|| STW B$A[4][2],*B2++[2]
STW A$A[4][3],*A2++[2]
|| STW B$A[4][3],*B2++[2]
STW A$A[4][4],*A2++[2]
```

```

|| STW B$A[4][4],*B2++[2]
.endasmfunc

.newblock
.global _SHA3_squeeze
.asg A12,OUT
.asg A13,LEN
.asg A14,BSZ
.align 32
_SHA3_squeeze:
.asmfunc stack_usage(24)
STW FP,*SP--(24) ; save frame pointer
|| MV SP,FP
STW RA, *SP[5]
|| STW A14,*FP[-2]
STDW A13:A12,*FP[-2]
|| MV B4,OUT ; reassign arguments
MV A6,LEN
|| MV B6,BSZ

loop?:
LDW *SP[5],RA ; reload RA
|| SHRU BSZ,3,A1
|| MV A4,A8
|| ADD 4,A4,B8
block?:
CMPLTU LEN,8,A0 ; len < 8?
[A0] BNOP tail?
LDW *A8++[2],A9
|| LDW *B8++[2],B9
|| SUB LEN,8,LEN ; len -= 8
MV LEN,A0
|| SUB A1,1,A1 ; bsz--
|| NOP 4
.if .BIG_ENDIAN
SWAP4 A9,A9
|| SWAP4 B9,B9
SWAP2 A9,A9
|| SWAP2 B9,B9
.endif
[!A0] BNOP ret?
|[!A0] ZERO A1
PACK2 B9,A9,B7
|[A1] BNOP block?
PACKH2 B9,A9,B9
|| SHFL B7,B7
SHFL B9,B9
STNW B7,*OUT++

```

```
STNW B9,*OUT++  
NOP
```

```
BNOP_KeccakF1600,4  
ADDKPC loop?,RA
```

```
.align 16  
tail?:  
.if .BIG_ENDIAN  
SWAP4 A9,A9  
|| SWAP4 B9,B9  
SWAP2 A9,A9  
|| SWAP2 B9,B9  
.endif  
PACK2 B9,A9,B7  
PACKH2 B9,A9,B9  
|| SHFL B7,B7  
SHFL B9,B9
```

```
STB B7,*OUT++  
|| SHRU B7,8,B7  
|| ADD LEN,7,A0  
[A0] STB B7,*OUT++  
||[A0] SHRU B7,8,B7  
||[A0] SUB A0,1,A0  
[A0] STB B7,*OUT++  
||[A0] SHRU B7,8,B7  
||[A0] SUB A0,1,A0  
[A0] STB B7,*OUT++  
||[A0] SUB A0,1,A0  
[A0] STB B9,*OUT++  
||[A0] SHRU B9,8,B9  
||[A0] SUB A0,1,A0  
[A0] STB B9,*OUT++  
||[A0] SHRU B9,8,B9  
||[A0] SUB A0,1,A0  
[A0] STB B9,*OUT++
```

```
ret?:  
LDDW *FP[-2],A13:A12  
BNOP RA  
|| LDW *FP[-2],A14  
LDW *++SP(24),FP ; restore frame pointer  
NOP 4 ; wait till FP is committed  
.endasmfunc
```

```
.if __TI_EABI__  
.sect ".text:sha_asm.const"
```

```
.else
.sect ".const:sha_asm"
.endif
.align 256
.uword 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
iotas:
.uword 0x00000001, 0x00000000
.uword 0x00000000, 0x00000089
.uword 0x00000000, 0x8000008b
.uword 0x00000000, 0x80008080
.uword 0x00000001, 0x0000008b
.uword 0x00000001, 0x00008000
.uword 0x00000001, 0x80008088
.uword 0x00000001, 0x80000082
.uword 0x00000000, 0x0000000b
.uword 0x00000000, 0x0000000a
.uword 0x00000001, 0x00008082
.uword 0x00000000, 0x00008003
.uword 0x00000001, 0x0000808b
.uword 0x00000001, 0x8000000b
.uword 0x00000001, 0x8000008a
.uword 0x00000001, 0x80000081
.uword 0x00000000, 0x80000081
.uword 0x00000000, 0x80000008
.uword 0x00000000, 0x00000083
.uword 0x00000000, 0x80008003
.uword 0x00000001, 0x80008088
.uword 0x00000000, 0x80000088
.uword 0x00000001, 0x00008000
.uword 0x00000000, 0x80008082
```

```
.cstring "Keccak-1600 absorb and squeeze for C64x, CRYPTOGRAMS by <appro\@openssl.org>"
.align 4
```

```
---
$output=pop;
open STDOUT,">$output";
print $code;
close STDOUT;
```

Found in path(s):
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/keccak1600-c64x.pl
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/crypto.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/crypto.h

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*

* Originally written by Shay Gueron (1, 2), and Vlad Krasnov (1, 3)
* (1) Intel Corporation, Israel Development Center, Haifa, Israel
* (2) University of Haifa, Israel
* (3) CloudFlare, Inc.

*

* Reference:
* S.Gueron and V.Krasnov, "Fast Prime Field Elliptic Curve Cryptography with
* 256 Bit Primes"

*/

Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/ec/ecp_nistz256.c

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*/

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/include/internal/refcount.h
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/refcount.h
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/sha/keccak1600.c
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/include/openssl/refcount.h
```

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*/

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/des/ncbc_enc.c
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/des/fcrypt.c
```

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/*-----

* fips/kdf/fips_kdf_tls.c - TLS KDF vector tests

*

* March 2015

*

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*-----

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```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/fips/kdf/fips_kdf_tls.c
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/test/fips_kdf_tls.c
```

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- * /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/c_cryptlib.h
- * /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/include/openssl/objects.h

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/include/openssl/des_old.h

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/*

tlhelp32.h - Include file for Tool help functions.

Written by Mumit Khan <khan@nanotech.wisc.edu>

This file is part of a free library for the Win32 API.

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```

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```
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```

```
$flavour = shift;
```

```
$0 =~ m/(.*[\\\/][^\\\/]+$/; $dir=$1;
( $xlate="{dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="{dir}perlasm/ppc-xlate.pl" and -f $xlate ) or
die "can't locate ppc-xlate.pl";
```

```
open STDOUT,"|^X $xlate $flavour ".shift || die "can't call $xlate: $!";
```

```
if ($flavour =~ ~/64/) {
    $CMPLI="cmpldi";
    $SHRLI="srdi";
    $SIGNX="extsw";
} else {
    $CMPLI="cmplwi";
    $SHRLI="srwi";
    $SIGNX="mr";
}
```

```
$code=<<<__;;
.machine "any"
.text
```

```
.globl .OPENSSL_fpu_probe
.align 4
.OPENSSL_fpu_probe:
fmr f0,f0
blr
.long 0
.byte 0,12,0x14,0,0,0,0
.size .OPENSSL_fpu_probe,.-.OPENSSL_fpu_probe
.globl .OPENSSL_ppc64_probe
.align 4
```

```

.OPENSSSL_ppc64_probe:
fcfid f1,f1
extrdi r0,r0,32,0
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.size .OPENSSSL_ppc64_probe,.-.OPENSSSL_ppc64_probe

.globl .OPENSSSL_altivec_probe
.align 4
.OPENSSSL_altivec_probe:
.long 0x10000484 # vor v0,v0,v0
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.size .OPENSSSL_altivec_probe,.-.OPENSSSL_altivec_probe

.globl .OPENSSSL_crypto207_probe
.align 4
.OPENSSSL_crypto207_probe:
lvx_u v0,0,r1
vcipher v0,v0,v0
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.size .OPENSSSL_crypto207_probe,.-.OPENSSSL_crypto207_probe

.globl .OPENSSSL_madd300_probe
.align 4
.OPENSSSL_madd300_probe:
xor r0,r0,r0
maddld r3,r0,r0,r0
maddhdu r3,r0,r0,r0
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0

.globl .OPENSSSL_wipe_cpu
.align 4
.OPENSSSL_wipe_cpu:
xor r0,r0,r0
fmr f0,f31
fmr f1,f31
fmr f2,f31
mr r3,r1
fmr f3,f31
xor r4,r4,r4
fmr f4,f31

```

```

xor r5,r5,r5
fmr f5,f31
xor r6,r6,r6
fmr f6,f31
xor r7,r7,r7
fmr f7,f31
xor r8,r8,r8
fmr f8,f31
xor r9,r9,r9
fmr f9,f31
xor r10,r10,r10
fmr f10,f31
xor r11,r11,r11
fmr f11,f31
xor r12,r12,r12
fmr f12,f31
fmr f13,f31
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.size .OPENSSL_wipe_cpu,-.OPENSSL_wipe_cpu

.globl .OPENSSL_atomic_add
.align 4
.OPENSSL_atomic_add:
Ladd: lwarx r5,0,r3
add r0,r4,r5
stwcx. r0,0,r3
bne- Ladd
$SIGNX r3,r0
blr
.long 0
.byte 0,12,0x14,0,0,0,2,0
.long 0
.size .OPENSSL_atomic_add,-.OPENSSL_atomic_add

.globl .OPENSSL_rdtsc_mftb
.align 4
.OPENSSL_rdtsc_mftb:
mftb r3
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.size .OPENSSL_rdtsc_mftb,-.OPENSSL_rdtsc_mftb

.globl .OPENSSL_rdtsc_mfspr268
.align 4
.OPENSSL_rdtsc_mfspr268:

```

```
mfspr r3,268
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.size .OPENSSL_rdtsc_mfspr268,-.OPENSSL_rdtsc_mfspr268
```

```
.globl .OPENSSL_cleanse_asm
.align 4
.OPENSSL_cleanse_asm:
$CMPLI r4,7
li r0,0
bge Lot
$CMPLI r4,0
beqLr-
Little: mtctr r4
stb r0,0(r3)
addi r3,r3,1
bdnz \$.-8
blr
Lot: andi. r5,r3,3
beq Laligned
stb r0,0(r3)
subi r4,r4,1
addi r3,r3,1
b Lot
Laligned:
$SHRLI r5,r4,2
mtctr r5
stw r0,0(r3)
addi r3,r3,4
bdnz \$.-8
andi. r4,r4,3
bne Little
blr
.long 0
.byte 0,12,0x14,0,0,0,2,0
.long 0
.size .OPENSSL_cleanse_asm,-.OPENSSL_cleanse_asm
```

```
globl .CRYPTO_memcmp
.align 4
.CRYPTO_memcmp:
$CMPLI r5,0
li r0,0
beq Lno_data
mtctr r5
Loop_cmp:
lbz r6,0(r3)
```

```

addi r3,r3,1
lbz r7,0(r4)
addi r4,r4,1
xor r6,r6,r7
or r0,r0,r6
bdnz Loop_cmp

```

Lno_data:

```

li r3,0
sub r3,r3,r0
extrwi r3,r3,1,0
blr
.long 0
.byte 0,12,0x14,0,0,3,0
.long 0
.size .CRYPTO_memcmp,.-.CRYPTO_memcmp

```

```

{
my ($out,$cnt,$max)=("r3","r4","r5");
my ($tick,$lasttick)=("r6","r7");
my ($diff,$lastdiff)=("r8","r9");

```

```

$code.=<<___;
.globl .OPENSSL_instrument_bus_mftb
.align 4
.OPENSSL_instrument_bus_mftb:
mtctr $cnt

```

```

mftb $lasttick # collect 1st tick
li $diff,0

```

```

dcbf 0,$out # flush cache line
lwarx $tick,0,$out # load and lock
add $tick,$tick,$diff
stwx. $tick,0,$out
stwx $tick,0,$out

```

```

Loop: mftb $tick
sub $diff,$tick,$lasttick
mr $lasttick,$tick
dcbf 0,$out # flush cache line
lwarx $tick,0,$out # load and lock
add $tick,$tick,$diff
stwx. $tick,0,$out
stwx $tick,0,$out
addi $out,$out,4 # ++$out
bdnz Loop

```



```

mr r3,$cnt
blr
.long 0
.byte 0,12,0x14,0,0,0,2,0
.long 0
.size .OPENSSL_instrument_bus_mftb,.-.OPENSSL_instrument_bus_mftb

.globl .OPENSSL_instrument_bus2_mftb
.align 4
.OPENSSL_instrument_bus2_mftb:
mr r0,$cnt
slwi $cnt,$cnt,2

mftb $lasttick # collect 1st tick
li $diff,0

dcbf 0,$out # flush cache line
lwarx $tick,0,$out # load and lock
add $tick,$tick,$diff
stwx. $tick,0,$out
stwx $tick,0,$out

mftb $tick # collect 1st diff
sub $diff,$tick,$lasttick
mr $lasttick,$tick
mr $lastdiff,$diff
Loop2:
dcbf 0,$out # flush cache line
lwarx $tick,0,$out # load and lock
add $tick,$tick,$diff
stwx. $tick,0,$out
stwx $tick,0,$out

addic. $max,$max,-1
beq Ldone2

mftb $tick
sub $diff,$tick,$lasttick
mr $lasttick,$tick
cmplw 7,$diff,$lastdiff
mr $lastdiff,$diff

mfcrr $tick # pull cr
not $tick,$tick # flip bits
rlwinm $tick,$tick,1,29,29 # isolate flipped eq bit and scale

sub. $cnt,$cnt,$tick # conditional --$cnt
add $out,$out,$tick # conditional ++$out

```

```

bne Loop2

Ldone2:
srwi $cnt,$cnt,2
sub r3,r0,$cnt
blr
.long 0
.byte 0,12,0x14,0,0,3,0
.long 0
.size .OPENSSL_instrument_bus2_mftb,.-.OPENSSL_instrument_bus2_mftb

.globl .OPENSSL_instrument_bus_mfspr268
.align 4
.OPENSSL_instrument_bus_mfspr268:
mtctr $cnt

mfspr $lasttick,268 # collect 1st tick
li $diff,0

dcbf 0,$out # flush cache line
lwarx $tick,0,$out # load and lock
add $tick,$tick,$diff
stwx. $tick,0,$out
stwx $tick,0,$out

Loop3: mfspr $tick,268
sub $diff,$tick,$lasttick
mr $lasttick,$tick
dcbf 0,$out # flush cache line
lwarx $tick,0,$out # load and lock
add $tick,$tick,$diff
stwx. $tick,0,$out
stwx $tick,0,$out
addi $out,$out,4 # ++$out
bdnz Loop3

mr r3,$cnt
blr
.long 0
.byte 0,12,0x14,0,0,2,0
.long 0
.size .OPENSSL_instrument_bus_mfspr268,.-.OPENSSL_instrument_bus_mfspr268

.globl .OPENSSL_instrument_bus2_mfspr268
.align 4
.OPENSSL_instrument_bus2_mfspr268:
mr r0,$cnt
slwi $cnt,$cnt,2

```

```

mfspr $lasttick,268 # collect 1st tick
li $diff,0

dcbf 0,$out # flush cache line
lwarx $tick,0,$out # load and lock
add $tick,$tick,$diff
stwcx. $tick,0,$out
stwx $tick,0,$out

mfspr $tick,268 # collect 1st diff
sub $diff,$tick,$lasttick
mr $lasttick,$tick
mr $lastdiff,$diff
Loop4:
dcbf 0,$out # flush cache line
lwarx $tick,0,$out # load and lock
add $tick,$tick,$diff
stwcx. $tick,0,$out
stwx $tick,0,$out

addic. $max,$max,-1
beq Ldone4

mfspr $tick,268
sub $diff,$tick,$lasttick
mr $lasttick,$tick
cmplw 7,$diff,$lastdiff
mr $lastdiff,$diff

mfcrl $tick # pull cr
not $tick,$tick # flip bits
rlwinm $tick,$tick,1,29,29 # isolate flipped eq bit and scale

sub. $cnt,$cnt,$tick # conditional --$cnt
add $out,$out,$tick # conditional ++$out
bne Loop4

Ldone4:
srwi $cnt,$cnt,2
sub r3,r0,$cnt
blr
.long 0
.byte 0,12,0x14,0,0,0,3,0
.long 0
.size .OPENSSL_instrument_bus2_mfspr268,-.OPENSSL_instrument_bus2_mfspr268

```

```

}

```

```
$code =~ s/^(.*)$/eval $1/gem;
print $code;
close STDOUT;
```

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```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/ppccpuid.pl
```

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```

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/test/fips_desmovs.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/test/fips_aesavs.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/aes/fips_aesavs.c

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/*-----
* fips/kdf/fips_kdf_ikev2.c - IKEV2 KDF vector tests
*
* March 2015
*
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*-----
*/

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/kdf/fips_kdf_ikev2.c

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/*-----
* crypto/des/asm/nbc_enc-octeon.c - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.
*
* January 2013
*
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*-----
*/

*/

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/asm/s390x-mont.pl

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/asm/ppc64-mont.pl

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/asm/armv4-mont.pl

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/sha256-586.pl

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/armv4cpuid.pl

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/arm64cpuid.pl

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```
/*-----  
* include/cavium/cvmx-aes.h - Cavium Octeon specific hardware assist  
* functionality that is to reside within the FIPS canister.  
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*/
```

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```
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```

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```
/*-----  
* crypto/aes/asm/aes_ccm-octeon.c - Cavium Octeon specific hardware assist  
* functionality that is to reside within the FIPS canister.  
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* January 2013  
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*-----  
*/
```

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```
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```

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*/opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/bn/asm/armv8-mont.pl
```

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/internal/evp_locl.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/include/internalevp_locl.h

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7.2a.202104051307/test/fips_rsagtest.c
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-
7.2a.202104051307/fips/rsa/fips_rsagtest.c

```

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```

/* -----
* crypto/bn/asm/modexp-octeon.c - Cavium Octeon specific hardware assist
* functionality.
*
* January 2013
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* -----
*/

```

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```

* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-
7.2a.202104051307/crypto/bn/asm/modexp-octeon.c

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscoverl-fom-7-2a-202104051307-tar-gz/ciscoverl-fom-7.2a.202104051307/fips/utl/fips_err.c

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```
*/
#define FIPS_AUTH_KEY "etaonrishdlcupfm"
#define FIPS_AUTH_CRYPTOFFICER "7f92562d409c903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTouser "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"
```

Found in path(s):
 * /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/fips_auth.in
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/* -----

* crypto/sha/asm/sha256-octeon.c - Cavium Octeon specific hardware assist

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*

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/* -----

* crypto/aes/asm/aes-octeon.c - Cavium Octeon specific hardware assist

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```

Found in path(s):

```

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
7.2a.202104051307/crypto/md32_common.h

```

No license file was found, but licenses were detected in source scan.

```

#!/usr/bin/env perl
# Copyright 2017-2018 The OpenSSL Project Authors. All Rights Reserved.
#
# Licensed under the OpenSSL license (the "License"). You may not use
# this file except in compliance with the License. You can obtain a copy
# in the file LICENSE in the source distribution or at
# https://www.openssl.org/source/license.html
#

```

```

# =====
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# =====
#
# Keccak-1600 for PPC64.
#
# June 2017.
#
# This is straightforward KECCAK_1X_ALT implementation that works on
# *any* PPC64. Then PowerISA 2.07 adds 2x64-bit vector rotate, and
# it's possible to achieve performance better than below, but that is
# naturally option only for POWER8 and successors...
#
#####
# Numbers are cycles per processed byte.
#
# r=1088(*)
#
# PPC970/G5 14.6/+120%
# POWER7 10.3/+100%
# POWER8 11.5/+85%
# POWER9 9.4/+45%
#
# (*) Corresponds to SHA3-256. Percentage after slash is improvement
# over gcc-4.x-generated KECCAK_1X_ALT code. Newer compilers do
# much better (but watch out for them generating code specific
# to processor they execute on).

$flavour = shift;

if ($flavour =~ /64/) {
    $SIZE_T = 8;
    $LRSIZE = 2*$SIZE_T;
    $UCMP = "cmlp";
    $STU = "stdu";
    $POP = "ld";
    $PUSH = "std";
} else { die "nonsense $flavour"; }

$0 =~ m/(.*[\\])(^\\)+$/; $dir=$1;
( $xlate="{dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="{dir}../perlasm/ppc-xlate.pl" and -f $xlate ) or
die "can't locate ppc-xlate.pl";

open STDOUT, "| ^X $xlate $flavour ".shift || die "can't call $xlate: $!";

```

```

$FRAME=24*$SIZE_T+6*$SIZE_T+32;
$LOCALS=6*$SIZE_T;
$TEMP=$LOCALS+6*$SIZE_T;

my $sp = "r1";

my @A = map([ "r$_", "r".($_+1), "r".($_+2), "r".($_+3), "r".($_+4) ],
            (7, 12, 17, 22, 27));
    $A[1][1] = "r6"; # r13 is reserved

my @C = map("r$_", (0,3,4,5));

my @rotates = ([ 0, 1, 62, 28, 27 ],
               [ 36, 44, 6, 55, 20 ],
               [ 3, 10, 43, 25, 39 ],
               [ 41, 45, 15, 21, 8 ],
               [ 18, 2, 61, 56, 14 ]);

$code.=<<____;
.text

.type KeccakF1600_int,\@function
.align 5
KeccakF1600_int:
li r0,24
mtctr r0
b .Loop
.align 4
.Loop:
xor $C[0],$A[0][0],$A[1][0] ; Theta
std $A[0][4],`$TEMP+0`($sp)
xor $C[1],$A[0][1],$A[1][1]
std $A[1][4],`$TEMP+8`($sp)
xor $C[2],$A[0][2],$A[1][2]
std $A[2][4],`$TEMP+16`($sp)
xor $C[3],$A[0][3],$A[1][3]
std $A[3][4],`$TEMP+24`($sp)

____
$C[4]=$A[0][4];
$C[5]=$A[1][4];
$C[6]=$A[2][4];
$C[7]=$A[3][4];
$code.=<<____;
xor $C[4],$A[0][4],$A[1][4]
xor $C[0],$C[0],$A[2][0]
xor $C[1],$C[1],$A[2][1]
xor $C[2],$C[2],$A[2][2]

```

```

xor $C[3],$C[3],$A[2][3]
xor $C[4],$C[4],$A[2][4]
xor $C[0],$C[0],$A[3][0]
xor $C[1],$C[1],$A[3][1]
xor $C[2],$C[2],$A[3][2]
xor $C[3],$C[3],$A[3][3]
xor $C[4],$C[4],$A[3][4]
xor $C[0],$C[0],$A[4][0]
xor $C[2],$C[2],$A[4][2]
xor $C[1],$C[1],$A[4][1]
xor $C[3],$C[3],$A[4][3]
rotldi $C[5],$C[2],1
xor $C[4],$C[4],$A[4][4]
rotldi $C[6],$C[3],1
xor $C[5],$C[5],$C[0]
rotldi $C[7],$C[4],1

```

```

xor $A[0][1],$A[0][1],$C[5]
xor $A[1][1],$A[1][1],$C[5]
xor $A[2][1],$A[2][1],$C[5]
xor $A[3][1],$A[3][1],$C[5]
xor $A[4][1],$A[4][1],$C[5]

```

```

rotldi $C[5],$C[0],1
xor $C[6],$C[6],$C[1]
xor $C[2],$C[2],$C[7]
rotldi $C[7],$C[1],1
xor $C[3],$C[3],$C[5]
xor $C[4],$C[4],$C[7]

```

```

xor $C[1], $A[0][2],$C[6] ;mr $C[1],$A[0][2]
xor $A[1][2],$A[1][2],$C[6]
xor $A[2][2],$A[2][2],$C[6]
xor $A[3][2],$A[3][2],$C[6]
xor $A[4][2],$A[4][2],$C[6]

```

```

xor $A[0][0],$A[0][0],$C[4]
xor $A[1][0],$A[1][0],$C[4]
xor $A[2][0],$A[2][0],$C[4]
xor $A[3][0],$A[3][0],$C[4]
xor $A[4][0],$A[4][0],$C[4]

```

```

____
$C[4]=undef;
$C[5]=undef;
$C[6]=undef;
$C[7]=undef;
$code.=<<____;
ld $A[0][4],`$TEMP+0`($sp)

```

```

xor $C[0], $A[0][3],$C[2] ;mr $C[0],$A[0][3]
ld $A[1][4],`$TEMP+8`($sp)
xor $A[1][3],$A[1][3],$C[2]
ld $A[2][4],`$TEMP+16`($sp)
xor $A[2][3],$A[2][3],$C[2]
ld $A[3][4],`$TEMP+24`($sp)
xor $A[3][3],$A[3][3],$C[2]
xor $A[4][3],$A[4][3],$C[2]

```

```

xor $C[2], $A[0][4],$C[3] ;mr $C[2],$A[0][4]
xor $A[1][4],$A[1][4],$C[3]
xor $A[2][4],$A[2][4],$C[3]
xor $A[3][4],$A[3][4],$C[3]
xor $A[4][4],$A[4][4],$C[3]

```

```

mr $C[3],$A[0][1] ; Rho+Pi
rotldi $A[0][1],$A[1][1],$rhotates[1][1]
;mr $C[1],$A[0][2]
rotldi $A[0][2],$A[2][2],$rhotates[2][2]
;mr $C[0],$A[0][3]
rotldi $A[0][3],$A[3][3],$rhotates[3][3]
;mr $C[2],$A[0][4]
rotldi $A[0][4],$A[4][4],$rhotates[4][4]

```

```

rotldi $A[1][1],$A[1][4],$rhotates[1][4]
rotldi $A[2][2],$A[2][3],$rhotates[2][3]
rotldi $A[3][3],$A[3][2],$rhotates[3][2]
rotldi $A[4][4],$A[4][1],$rhotates[4][1]

```

```

rotldi $A[1][4],$A[4][2],$rhotates[4][2]
rotldi $A[2][3],$A[3][4],$rhotates[3][4]
rotldi $A[3][2],$A[2][1],$rhotates[2][1]
rotldi $A[4][1],$A[1][3],$rhotates[1][3]

```

```

rotldi $A[4][2],$A[2][4],$rhotates[2][4]
rotldi $A[3][4],$A[4][3],$rhotates[4][3]
rotldi $A[2][1],$A[1][2],$rhotates[1][2]
rotldi $A[1][3],$A[3][1],$rhotates[3][1]

```

```

rotldi $A[2][4],$A[4][0],$rhotates[4][0]
rotldi $A[4][3],$A[3][0],$rhotates[3][0]
rotldi $A[1][2],$A[2][0],$rhotates[2][0]
rotldi $A[3][1],$A[1][0],$rhotates[1][0]

```

```

rotldi $A[1][0],$C[0],$rhotates[0][3]
rotldi $A[2][0],$C[3],$rhotates[0][1]
rotldi $A[3][0],$C[2],$rhotates[0][4]
rotldi $A[4][0],$C[1],$rhotates[0][2]

```

```

andc $C[0],$A[0][2],$A[0][1] ; Chi+Iota
andc $C[1],$A[0][3],$A[0][2]
andc $C[2],$A[0][0],$A[0][4]
andc $C[3],$A[0][1],$A[0][0]
xor $A[0][0],$A[0][0],$C[0]
andc $C[0],$A[0][4],$A[0][3]
xor $A[0][1],$A[0][1],$C[1]
ld $C[1],`$LOCALS+4*$SIZE_T`($sp)
xor $A[0][3],$A[0][3],$C[2]
xor $A[0][4],$A[0][4],$C[3]
xor $A[0][2],$A[0][2],$C[0]
ldu $C[3],8($C[1]) ; Iota[i++]

```

```

andc $C[0],$A[1][2],$A[1][1]
std $C[1],`$LOCALS+4*$SIZE_T`($sp)
andc $C[1],$A[1][3],$A[1][2]
andc $C[2],$A[1][0],$A[1][4]
xor $A[0][0],$A[0][0],$C[3] ; A[0][0] ^= Iota
andc $C[3],$A[1][1],$A[1][0]
xor $A[1][0],$A[1][0],$C[0]
andc $C[0],$A[1][4],$A[1][3]
xor $A[1][1],$A[1][1],$C[1]
xor $A[1][3],$A[1][3],$C[2]
xor $A[1][4],$A[1][4],$C[3]
xor $A[1][2],$A[1][2],$C[0]

```

```

andc $C[0],$A[2][2],$A[2][1]
andc $C[1],$A[2][3],$A[2][2]
andc $C[2],$A[2][0],$A[2][4]
andc $C[3],$A[2][1],$A[2][0]
xor $A[2][0],$A[2][0],$C[0]
andc $C[0],$A[2][4],$A[2][3]
xor $A[2][1],$A[2][1],$C[1]
xor $A[2][3],$A[2][3],$C[2]
xor $A[2][4],$A[2][4],$C[3]
xor $A[2][2],$A[2][2],$C[0]

```

```

andc $C[0],$A[3][2],$A[3][1]
andc $C[1],$A[3][3],$A[3][2]
andc $C[2],$A[3][0],$A[3][4]
andc $C[3],$A[3][1],$A[3][0]
xor $A[3][0],$A[3][0],$C[0]
andc $C[0],$A[3][4],$A[3][3]
xor $A[3][1],$A[3][1],$C[1]
xor $A[3][3],$A[3][3],$C[2]
xor $A[3][4],$A[3][4],$C[3]
xor $A[3][2],$A[3][2],$C[0]

```

```

andc $C[0],$A[4][2],$A[4][1]
andc $C[1],$A[4][3],$A[4][2]
andc $C[2],$A[4][0],$A[4][4]
andc $C[3],$A[4][1],$A[4][0]
xor $A[4][0],$A[4][0],$C[0]
andc $C[0],$A[4][4],$A[4][3]
xor $A[4][1],$A[4][1],$C[1]
xor $A[4][3],$A[4][3],$C[2]
xor $A[4][4],$A[4][4],$C[3]
xor $A[4][2],$A[4][2],$C[0]

bdnz .Loop

blr

.long 0
.byte 0,12,0x14,0,0,0,0
.size KeccakF1600_int,-KeccakF1600_int

.type KeccakF1600,@function
.align 5
KeccakF1600:
$STU $sp,-$FRAME($sp)
mflr r0
$PUSH r14,`$FRAME-$SIZE_T*18`($sp)
$PUSH r15,`$FRAME-$SIZE_T*17`($sp)
$PUSH r16,`$FRAME-$SIZE_T*16`($sp)
$PUSH r17,`$FRAME-$SIZE_T*15`($sp)
$PUSH r18,`$FRAME-$SIZE_T*14`($sp)
$PUSH r19,`$FRAME-$SIZE_T*13`($sp)
$PUSH r20,`$FRAME-$SIZE_T*12`($sp)
$PUSH r21,`$FRAME-$SIZE_T*11`($sp)
$PUSH r22,`$FRAME-$SIZE_T*10`($sp)
$PUSH r23,`$FRAME-$SIZE_T*9`($sp)
$PUSH r24,`$FRAME-$SIZE_T*8`($sp)
$PUSH r25,`$FRAME-$SIZE_T*7`($sp)
$PUSH r26,`$FRAME-$SIZE_T*6`($sp)
$PUSH r27,`$FRAME-$SIZE_T*5`($sp)
$PUSH r28,`$FRAME-$SIZE_T*4`($sp)
$PUSH r29,`$FRAME-$SIZE_T*3`($sp)
$PUSH r30,`$FRAME-$SIZE_T*2`($sp)
$PUSH r31,`$FRAME-$SIZE_T*1`($sp)
$PUSH r0,`$FRAME+$LRSAVE`($sp)

bl PICmeup
subi r12,r12,8 ; prepare for ldu

$PUSH r3,`$LOCALS+0*$SIZE_T`($sp)

```



```
;$PUSH r4,`$LOCALS+1*$SIZE_T`($sp)
;$PUSH r5,`$LOCALS+2*$SIZE_T`($sp)
;$PUSH r6,`$LOCALS+3*$SIZE_T`($sp)
$PUSH r12,`$LOCALS+4*$SIZE_T`($sp)
```

```
ld $A[0][0],`8*0`(r3) ; load A[5][5]
ld $A[0][1],`8*1`(r3)
ld $A[0][2],`8*2`(r3)
ld $A[0][3],`8*3`(r3)
ld $A[0][4],`8*4`(r3)
ld $A[1][0],`8*5`(r3)
ld $A[1][1],`8*6`(r3)
ld $A[1][2],`8*7`(r3)
ld $A[1][3],`8*8`(r3)
ld $A[1][4],`8*9`(r3)
ld $A[2][0],`8*10`(r3)
ld $A[2][1],`8*11`(r3)
ld $A[2][2],`8*12`(r3)
ld $A[2][3],`8*13`(r3)
ld $A[2][4],`8*14`(r3)
ld $A[3][0],`8*15`(r3)
ld $A[3][1],`8*16`(r3)
ld $A[3][2],`8*17`(r3)
ld $A[3][3],`8*18`(r3)
ld $A[3][4],`8*19`(r3)
ld $A[4][0],`8*20`(r3)
ld $A[4][1],`8*21`(r3)
ld $A[4][2],`8*22`(r3)
ld $A[4][3],`8*23`(r3)
ld $A[4][4],`8*24`(r3)
```

bl KeccakF1600_int

```
$POP r3,`$LOCALS+0*$SIZE_T`($sp)
std $A[0][0],`8*0`(r3) ; return A[5][5]
std $A[0][1],`8*1`(r3)
std $A[0][2],`8*2`(r3)
std $A[0][3],`8*3`(r3)
std $A[0][4],`8*4`(r3)
std $A[1][0],`8*5`(r3)
std $A[1][1],`8*6`(r3)
std $A[1][2],`8*7`(r3)
std $A[1][3],`8*8`(r3)
std $A[1][4],`8*9`(r3)
std $A[2][0],`8*10`(r3)
std $A[2][1],`8*11`(r3)
std $A[2][2],`8*12`(r3)
std $A[2][3],`8*13`(r3)
```

```

std $A[2][4],`8*14`(r3)
std $A[3][0],`8*15`(r3)
std $A[3][1],`8*16`(r3)
std $A[3][2],`8*17`(r3)
std $A[3][3],`8*18`(r3)
std $A[3][4],`8*19`(r3)
std $A[4][0],`8*20`(r3)
std $A[4][1],`8*21`(r3)
std $A[4][2],`8*22`(r3)
std $A[4][3],`8*23`(r3)
std $A[4][4],`8*24`(r3)

```

```

$POP r0,`$FRAME+$LRSIZE`($sp)
$POP r14,`$FRAME-$SIZE_T*18`($sp)
$POP r15,`$FRAME-$SIZE_T*17`($sp)
$POP r16,`$FRAME-$SIZE_T*16`($sp)
$POP r17,`$FRAME-$SIZE_T*15`($sp)
$POP r18,`$FRAME-$SIZE_T*14`($sp)
$POP r19,`$FRAME-$SIZE_T*13`($sp)
$POP r20,`$FRAME-$SIZE_T*12`($sp)
$POP r21,`$FRAME-$SIZE_T*11`($sp)
$POP r22,`$FRAME-$SIZE_T*10`($sp)
$POP r23,`$FRAME-$SIZE_T*9`($sp)
$POP r24,`$FRAME-$SIZE_T*8`($sp)
$POP r25,`$FRAME-$SIZE_T*7`($sp)
$POP r26,`$FRAME-$SIZE_T*6`($sp)
$POP r27,`$FRAME-$SIZE_T*5`($sp)
$POP r28,`$FRAME-$SIZE_T*4`($sp)
$POP r29,`$FRAME-$SIZE_T*3`($sp)
$POP r30,`$FRAME-$SIZE_T*2`($sp)
$POP r31,`$FRAME-$SIZE_T*1`($sp)
mblr r0
addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,4,1,0x80,18,1,0
.long 0
.size KeccakF1600,-KeccakF1600

```

```

.type dword_le_load,\@function
.align 5
dword_le_load:
lbzu r0,1(r3)
lbzu r4,1(r3)
lbzu r5,1(r3)
insrdi r0,r4,8,48
lbzu r4,1(r3)
insrdi r0,r5,8,40

```

```

lbzu r5,1(r3)
insrdi r0,r4,8,32
lbzu r4,1(r3)
insrdi r0,r5,8,24
lbzu r5,1(r3)
insrdi r0,r4,8,16
lbzu r4,1(r3)
insrdi r0,r5,8,8
insrdi r0,r4,8,0
blr
.long 0
.byte 0,12,0x14,0,0,0,1,0
.long 0
.size dword_le_load,-dword_le_load

```

```

.globl SHA3_absorb
.type SHA3_absorb,@function
.align 5
SHA3_absorb:
$STU $sp,-$FRAME($sp)
mflr r0
$PUSH r14,`$FRAME-$SIZE_T*18`($sp)
$PUSH r15,`$FRAME-$SIZE_T*17`($sp)
$PUSH r16,`$FRAME-$SIZE_T*16`($sp)
$PUSH r17,`$FRAME-$SIZE_T*15`($sp)
$PUSH r18,`$FRAME-$SIZE_T*14`($sp)
$PUSH r19,`$FRAME-$SIZE_T*13`($sp)
$PUSH r20,`$FRAME-$SIZE_T*12`($sp)
$PUSH r21,`$FRAME-$SIZE_T*11`($sp)
$PUSH r22,`$FRAME-$SIZE_T*10`($sp)
$PUSH r23,`$FRAME-$SIZE_T*9`($sp)
$PUSH r24,`$FRAME-$SIZE_T*8`($sp)
$PUSH r25,`$FRAME-$SIZE_T*7`($sp)
$PUSH r26,`$FRAME-$SIZE_T*6`($sp)
$PUSH r27,`$FRAME-$SIZE_T*5`($sp)
$PUSH r28,`$FRAME-$SIZE_T*4`($sp)
$PUSH r29,`$FRAME-$SIZE_T*3`($sp)
$PUSH r30,`$FRAME-$SIZE_T*2`($sp)
$PUSH r31,`$FRAME-$SIZE_T*1`($sp)
$PUSH r0,`$FRAME+$LRSAVE`($sp)

```

```

bl PICmeup
subi r4,r4,1 ; prepare for lbzu
subi r12,r12,8 ; prepare for ldu

```

```

$PUSH r3,`$LOCALS+0*$SIZE_T`($sp) ; save A[][]
$PUSH r4,`$LOCALS+1*$SIZE_T`($sp) ; save inp
$PUSH r5,`$LOCALS+2*$SIZE_T`($sp) ; save len

```

```
$PUSH r6,`$LOCALS+3*$SIZE_T`($sp) ; save bsz
```

```
mr r0,r6
```

```
$PUSH r12,`$LOCALS+4*$SIZE_T`($sp)
```

```
ld $A[0][0],`8*0` (r3) ; load A[5][5]
```

```
ld $A[0][1],`8*1` (r3)
```

```
ld $A[0][2],`8*2` (r3)
```

```
ld $A[0][3],`8*3` (r3)
```

```
ld $A[0][4],`8*4` (r3)
```

```
ld $A[1][0],`8*5` (r3)
```

```
ld $A[1][1],`8*6` (r3)
```

```
ld $A[1][2],`8*7` (r3)
```

```
ld $A[1][3],`8*8` (r3)
```

```
ld $A[1][4],`8*9` (r3)
```

```
ld $A[2][0],`8*10` (r3)
```

```
ld $A[2][1],`8*11` (r3)
```

```
ld $A[2][2],`8*12` (r3)
```

```
ld $A[2][3],`8*13` (r3)
```

```
ld $A[2][4],`8*14` (r3)
```

```
ld $A[3][0],`8*15` (r3)
```

```
ld $A[3][1],`8*16` (r3)
```

```
ld $A[3][2],`8*17` (r3)
```

```
ld $A[3][3],`8*18` (r3)
```

```
ld $A[3][4],`8*19` (r3)
```

```
ld $A[4][0],`8*20` (r3)
```

```
ld $A[4][1],`8*21` (r3)
```

```
ld $A[4][2],`8*22` (r3)
```

```
ld $A[4][3],`8*23` (r3)
```

```
ld $A[4][4],`8*24` (r3)
```

```
mr r3,r4
```

```
mr r4,r5
```

```
mr r5,r0
```

```
b .Loop_absorb
```

```
.align 4
```

```
.Loop_absorb:
```

```
$UCMP r4,r5 ; len < bsz?
```

```
blt .Labsorbed
```

```
sub r4,r4,r5 ; len -= bsz
```

```
srwi r5,r5,3
```

```
$PUSH r4,`$LOCALS+2*$SIZE_T`($sp) ; save len
```

```
mtctr r5
```

```
bl dword_le_load ; *inp++
```

```
xor $A[0][0],$A[0][0],r0
```

```
bdz .Lprocess_block
```

```

bl dword_le_load ; *inp++
xor $A[0][1],$A[0][1],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[0][2],$A[0][2],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[0][3],$A[0][3],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[0][4],$A[0][4],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[1][0],$A[1][0],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[1][1],$A[1][1],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[1][2],$A[1][2],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[1][3],$A[1][3],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[1][4],$A[1][4],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[2][0],$A[2][0],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[2][1],$A[2][1],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[2][2],$A[2][2],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[2][3],$A[2][3],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[2][4],$A[2][4],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[3][0],$A[3][0],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[3][1],$A[3][1],r0
bdz .Lprocess_block

```

```

bl dword_le_load ; *inp++
xor $A[3][2],$A[3][2],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[3][3],$A[3][3],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[3][4],$A[3][4],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[4][0],$A[4][0],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[4][1],$A[4][1],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[4][2],$A[4][2],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[4][3],$A[4][3],r0
bdz .Lprocess_block
bl dword_le_load ; *inp++
xor $A[4][4],$A[4][4],r0

.Lprocess_block:
$PUSH r3,`$LOCALS+1*$SIZE_T`($sp) ; save inp

bl KeccakF1600_int

$POP r0,`$LOCALS+4*$SIZE_T`($sp) ; pull iotas[24]
$POP r5,`$LOCALS+3*$SIZE_T`($sp) ; restore bsz
$POP r4,`$LOCALS+2*$SIZE_T`($sp) ; restore len
$POP r3,`$LOCALS+1*$SIZE_T`($sp) ; restore inp
addic r0,r0,`-8*24` ; rewind iotas
$PUSH r0,`$LOCALS+4*$SIZE_T`($sp)

b .Loop_absorb

.align 4
.Labsorbed:
$POP r3,`$LOCALS+0*$SIZE_T`($sp)
std $A[0][0],`8*0`(r3) ; return A[5][5]
std $A[0][1],`8*1`(r3)
std $A[0][2],`8*2`(r3)
std $A[0][3],`8*3`(r3)
std $A[0][4],`8*4`(r3)
std $A[1][0],`8*5`(r3)
std $A[1][1],`8*6`(r3)

```

```

std $A[1][2],`8*7`(r3)
std $A[1][3],`8*8`(r3)
std $A[1][4],`8*9`(r3)
std $A[2][0],`8*10`(r3)
std $A[2][1],`8*11`(r3)
std $A[2][2],`8*12`(r3)
std $A[2][3],`8*13`(r3)
std $A[2][4],`8*14`(r3)
std $A[3][0],`8*15`(r3)
std $A[3][1],`8*16`(r3)
std $A[3][2],`8*17`(r3)
std $A[3][3],`8*18`(r3)
std $A[3][4],`8*19`(r3)
std $A[4][0],`8*20`(r3)
std $A[4][1],`8*21`(r3)
std $A[4][2],`8*22`(r3)
std $A[4][3],`8*23`(r3)
std $A[4][4],`8*24`(r3)

```

```

mr r3,r4 ; return value
$POP r0,`$FRAME+$LRSAVE`($sp)
$POP r14,`$FRAME-$$SIZE_T*18`($sp)
$POP r15,`$FRAME-$$SIZE_T*17`($sp)
$POP r16,`$FRAME-$$SIZE_T*16`($sp)
$POP r17,`$FRAME-$$SIZE_T*15`($sp)
$POP r18,`$FRAME-$$SIZE_T*14`($sp)
$POP r19,`$FRAME-$$SIZE_T*13`($sp)
$POP r20,`$FRAME-$$SIZE_T*12`($sp)
$POP r21,`$FRAME-$$SIZE_T*11`($sp)
$POP r22,`$FRAME-$$SIZE_T*10`($sp)
$POP r23,`$FRAME-$$SIZE_T*9`($sp)
$POP r24,`$FRAME-$$SIZE_T*8`($sp)
$POP r25,`$FRAME-$$SIZE_T*7`($sp)
$POP r26,`$FRAME-$$SIZE_T*6`($sp)
$POP r27,`$FRAME-$$SIZE_T*5`($sp)
$POP r28,`$FRAME-$$SIZE_T*4`($sp)
$POP r29,`$FRAME-$$SIZE_T*3`($sp)
$POP r30,`$FRAME-$$SIZE_T*2`($sp)
$POP r31,`$FRAME-$$SIZE_T*1`($sp)
mblr r0
addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,4,1,0x80,18,4,0
.long 0
.size SHA3_absorb,-SHA3_absorb

```

```
{
```

```

my ($A_flat,$out,$len,$bsz) = map("r$_",(28..31));
$code.=<<___.
.globl SHA3_squeeze
.type SHA3_squeeze,@function
.align 5
SHA3_squeeze:
$STU $sp,`-10*$$SIZE_T`($sp)
mflr r0
$PUSH r28,`6*$$SIZE_T`($sp)
$PUSH r29,`7*$$SIZE_T`($sp)
$PUSH r30,`8*$$SIZE_T`($sp)
$PUSH r31,`9*$$SIZE_T`($sp)
$PUSH r0,`10*$$SIZE_T+$$LRSAVE`($sp)

mr $A_flat,r3
subi r3,r3,8 ; prepare for ldu
subi $out,r4,1 ; prepare for stbu
mr $len,r5
mr $bsz,r6
b .Loop_squeeze

.align 4
.Loop_squeeze:
ldu r0,8(r3)
${UCMP}i $len,8
blt .Lsqueeze_tail

stbu r0,1($out)
srldi r0,r0,8
stbu r0,1($out)
srldi r0,r0,8
stbu r0,1($out)
srldi r0,r0,8
stbu r0,1($out)
srldi r0,r0,8
stbu r0,1($out)
srldi r0,r0,8
stbu r0,1($out)
srldi r0,r0,8
stbu r0,1($out)
srldi r0,r0,8
stbu r0,1($out)
srldi r0,r0,8
stbu r0,1($out)
srldi r0,r0,8
stbu r0,1($out)

subic. $len,$len,8
beq .Lsqueeze_done

subic. r6,r6,8
bgt .Loop_squeeze

```



```

mr r3,$A_flat
bl KeccakF1600
subi r3,$A_flat,8 ; prepare for ldu
mr r6,$bsz
b .Loop_squeeze

.align 4
.Lsqueeze_tail:
mtctr $len
.Loop_tail:
stbu r0,1($out)
srldi r0,r0,8
bdnz .Loop_tail

.Lsqueeze_done:
$POP r0,`10*$SIZE_T+$LRSAVE`($sp)
$POP r28,`6*$SIZE_T`($sp)
$POP r29,`7*$SIZE_T`($sp)
$POP r30,`8*$SIZE_T`($sp)
$POP r31,`9*$SIZE_T`($sp)
mtr r0
addi $sp,$sp,`10*$SIZE_T`
blr
.long 0
.byte 0,12,4,1,0x80,4,4,0
.long 0
.size SHA3_squeeze,-SHA3_squeeze
___
}

# Ugly hack here, because PPC assembler syntax seem to vary too
# much from platforms to platform...
$code.=<<___;
.align 6
PICmeup:
mflr r0
bcl 20,31,`$+4
mflr r12 ; vvvvvv "distance" between . and 1st data entry
addi r12,r12,`64-8`
mtr r0
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
.space `64-9*4`
.type iotas,`@object
iotas:
.quad 0x0000000000000001

```

```
.quad 0x0000000000008082
.quad 0x800000000000808a
.quad 0x8000000080008000
.quad 0x000000000000808b
.quad 0x0000000080000001
.quad 0x8000000080008081
.quad 0x8000000000008009
.quad 0x000000000000008a
.quad 0x0000000000000088
.quad 0x0000000080008009
.quad 0x000000008000000a
.quad 0x000000008000808b
.quad 0x800000000000008b
.quad 0x8000000000008089
.quad 0x8000000000008003
.quad 0x8000000000008002
.quad 0x8000000000000080
.quad 0x000000000000800a
.quad 0x800000008000000a
.quad 0x8000000080008081
.quad 0x8000000000008080
.quad 0x0000000080000001
.quad 0x8000000080008008
.size iotas,-iotas
.asciz "Keccak-1600 absorb and squeeze for PPC64, CRYPTOGRAMS by <appro@openssl.org>"
```

—

```
$code =~ s/^\([\^\]*\)\/eval $1/gem;
print $code;
close STDOUT;
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/keccak1600-ppc64.pl
```

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```
/*-----
* fips_test_ig95.c - Unit test for IG 9.5 support
*
* April, 2015
*
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*-----
*/
/* =====
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*

```

*
* This command is intended as a test driver for the FIPS-140 testing
* lab performing FIPS-140 validation. It demonstrates the use of the
* OpenSSL library to perform a variety of common cryptographic
* functions. A power-up self test is demonstrated by deliberately
* pointing to an invalid executable hash
*
* Contributed by Steve Marquess.
*
*/

Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/fips/fips_test_ig95.c
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/test/fips_test_ig95.c

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* =====
*
*/

```

Found in path(s):

```

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
7.2a.202104051307/fips/ecdh/fips_ecdh_selftest.c

```

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*/

```

```

*/

```

```
/*
 * A 64-bit implementation of the NIST P-224 elliptic curve point multiplication
 *
 * Inspired by Daniel J. Bernstein's public domain nistp224 implementation
 * and Adam Langley's public domain 64-bit C implementation of curve25519
 */
```

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```
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```

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/*-----
 * kdf/kdf_ssh.c - Key Derivation Function for SSH
 *
 * March 2015
 *
 * Copyright (c) 2015, 2018 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 */
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/kdf/kdf_ssh.c
```

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7.2a.202104051307/crypto/aes/aes_locl.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
7.2a.202104051307/crypto/aes/aes.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
7.2a.202104051307/crypto/aes/aes_ecb.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
7.2a.202104051307/crypto/aes/aes_ctr.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
7.2a.202104051307/crypto/aes/aes_cbc.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
7.2a.202104051307/crypto/aes/aes_misc.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/des/fips_des_selftest.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/sha/fips_sha1_selftest.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/rand/fips_rand.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/fips_rand.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/aes/fips_aes_selftest.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014-2018 The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the OpenSSL license (the "License"). You may not use
* this file except in compliance with the License. You can obtain a copy
* in the file LICENSE in the source distribution or at
* <https://www.openssl.org/source/license.html>
*/

Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/include/internal/bn_int.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/bn_intern.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn_int.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/internal/bn_int.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/internal/constant_time_locl.h
No license file was found, but licenses were detected in source scan.

/* =====
* Copyright (c) 2011 The OpenSSL Project. All rights reserved.
* Copyright (c) 2013 Red Hat, Inc.
*
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* modification, are permitted provided that the following conditions
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*
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 * distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 * software must display the following acknowledgment:
 * "This product includes software developed by the OpenSSL Project
 * for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
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 * for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
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 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
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 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 *
 */

Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/dh/fips_dh_selftest.c

No license file was found, but licenses were detected in source scan.

/*.<.>, <crypto/*.<.>, <ssl/*.<.>, <apps/*.<.>)

When this option is NOT specified, the filelist is taken from the commandline instead. Here, wildcards may be embedded. (Be sure to escape those to prevent the shell from expanding them for you when you wish mkerr.pl to do so instead.)

Default: take file list to scan from the command line.

-reindex Discard the numeric values previously assigned to the error and function codes as extracted from the scanned header files; instead renumber all of them starting from 100. (Note that the numbers assigned through 'R' records in the config file remain intact.)

Default: keep previously assigned numbers. (You are warned when collisions are detected.)

-nostatic Generates a different source code, where these additional functions are generated for each library specified in the config file:

```
void ERR_load_<LIB>_strings(void);
void ERR_unload_<LIB>_strings(void);
void ERR_<LIB>_error(int f, int r, char *fn, int ln);
#define <LIB>err(f,r) ERR_<LIB>_error(f,r,OPENSSL_FILE,OPENSSL_LINE)
```

while the code facilitates the use of these in an environment where the error support routines are dynamically loaded at runtime.

Default: 'static' code generation.

-staticloader Prefix generated functions with the 'static' scope modifier.

Default: don't write any scope modifier prefix.

-unref Print out unreferenced function and reason codes.

-write Actually (over)write the generated code to the header and C source files as assigned to each library through the config file.

Default: don't write.

-help / -h / -? / --help Show this help text.

... Additional arguments are added to the file list to scan, assuming '-recurse' was NOT specified on the command line.

EOF

```
exit 1;
} else {
last;
}
}
```

```
if($recurse) {
@source = ( <crypto/*.c>, <crypto/**/*.c>, <ssl/*.c>, <ssl/**/*.c> )
} else {
@source = @ARGV;
```

```

}

# Read in the config file

open(IN, "<$config") || die "Can't open config file $config";

# Parse config file

while(<IN>)
{
if(/^L\s+(\S+)\s+(\S+)\s+(\S+)/) {
$hinc{$1} = $2;
$libinc{$2} = $1;
$cskip{$3} = $1;
if($3 ne "NONE") {
$src{$1} = $3;
$fmax{$1} = 100;
$rmax{$1} = 100;
$fassigned{$1} = ":";
$rassigned{$1} = ":";
$fnew{$1} = 0;
$rnew{$1} = 0;
}
} elsif (/^F\s+(\S+)/) {
# Add extra function with $1
} elsif (/^R\s+(\S+)\s+(\S+)/) {
$rextra{$1} = $2;
$rcodes{$1} = $2;
}
}

close IN;

# Scan each header file in turn and make a list of error codes
# and function names

while (($hdr, $lib) = each %libinc)
{
next if($hdr eq "NONE");
print STDERR "Scanning header file $hdr\n" if $debug;
my $line = "", $def= "", $linenr = 0, $gotfile = 0, $cpp = 0;
if (open(IN, "<$hdr")) {
$gotfile = 1;
while(<IN>) {
$linenr++;
print STDERR "line: $linenr\r" if $debug;

last if(/BEGIN\s+ERROR\s+CODES/);

```

```

if ($line ne "") {
    $_ = $line . $_;
    $line = "";
}

if (/\$/) {
    $line = $_;
    next;
}

if (/\^*/) {
    if (not /\^*\//) { # multiline comment...
        $line = $_; # ... just accumulate
        next;
    } else {
        s/\^*.?*?\^*\//gs; # wipe it
    }
}

if ($cpp) {
    $cpp++ if /\^#\s*if/;
    $cpp-- if /\^#\s*endif/;
    next;
}
$cpp = 1 if /\^#. *ifdef.*cplusplus/; # skip "C" declaration

next if (/^\#/);          # skip preprocessor directives

s/{\^{\}}*//gs;          # ignore {} blocks

if (/\{\|\^*/) { # Add a } so editor works...
    $line = $_;
} else {
    $def .= $_;
}
}
}

print STDERR "          \r" if $debug;
$defnr = 0;
# Delete any DECLARE_ macros
$def =~ s/DECLARE_\w+([\w,\s]+)/gs;
foreach (split /;/, $def) {
    $defnr++;
    print STDERR "def: $defnr\r" if $debug;

    # The goal is to collect function names from function declarations.

```

```

s/^[\\n\\s]*//g;
s/[\\n\\s]*$/g;

# Skip over recognized non-function declarations
next if(/typedef\\W/ or /DECLARE_STACK_OF/ or /TYPEDEF_.*_OF/);

# Remove STACK_OF(foo)
s/STACK_OF(\\w+)/void/;

# Reduce argument lists to empty ()
# fold round brackets recursively: (t(*v)(t),t) -> (t{}{}),t) -> {}
while(/^(.*\\)/s) {
s/^(\\(\\(\\)))+\\(\\)/gs;
s/^(\\s*\\s*(\\w+)\\s*\\{\\}\\s*)/$1/g; #(*f{ }) -> f
}
# pretend as we didn't use curly braces: {} -> ()
s/\\{\\}/\\(\\)/gs;

if (/^(\\w+)\\s*(\\(\\.*/s) { # first token prior [first] () is
my $name = $1; # a function name!
$name =~ tr/[a-z]/[A-Z]/;
$ftrans{$name} = $1;
} elsif (/^(\\(\\))/ and not (/=/)) {
print STDERR "Header $hdr: cannot parse: $_;\n";
}
}

print STDERR "          \r" if $debug;

next if $reindex;

# Scan function and reason codes and store them: keep a note of the
# maximum code used.

if ($gotfile) {
while(<IN>) {
if (/^#\\s*define\\s+(\\S+)\\s+(\\S+)/) {
$name = $1;
$code = $2;
next if $name =~ /^${lib}err/;
unless($name =~ /^${lib}_(\\RF)_(\\w+)$/) {
print STDERR "Invalid error code $name\n";
next;
}
if ($1 eq "R") {
$rcodes{$name} = $code;
if ($assigned{$lib} =~ /:$code:/) {
print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
}
}
}
}

```

```

    ++$errcount;
  }
  $rassigned{$lib} .= "Code:";
  if(!(exists $rextra{$name}) &&
    ($code > $rmax{$lib})) {
    $rmax{$lib} = $code;
  }
} else {
  if ($fassigned{$lib} =~ /:$code:/) {
    print STDERR "!! ERROR: $lib function code $code assigned twice (collision at $name)\n";
    ++$errcount;
  }
  $fassigned{$lib} .= "Code:";
  if($code > $fmax{$lib}) {
    $fmax{$lib} = $code;
  }
  $fcodes{$name} = $code;
}
}
}
}

if ($debug) {
  if (defined($fmax{$lib})) {
    print STDERR "Max function code fmax" . "{" . "$lib" . "} = $fmax{$lib}\n";
    $fassigned{$lib} =~ m/^(.*):$/;
    @fassigned = sort {$a <=> $b} split(":", $1);
    print STDERR " @fassigned\n";
  }
  if (defined($rmax{$lib})) {
    print STDERR "Max reason code rmax" . "{" . "$lib" . "} = $rmax{$lib}\n";
    $rassigned{$lib} =~ m/^(.*):$/;
    @rassigned = sort {$a <=> $b} split(":", $1);
    print STDERR " @rassigned\n";
  }
}

if ($lib eq "SSL") {
  if ($rmax{$lib} >= 1000) {
    print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n";
    print STDERR "!! Any new alerts must be added to $config.\n";
    ++$errcount;
    print STDERR "\n";
  }
}
close IN;
}

```

```

# Scan each C source file and look for function and reason codes
# This is done by looking for strings that "look like" function or
# reason codes: basically anything consisting of all upper case and
# numerics which has _F_ or _R_ in it and which has the name of an
# error library at the start. This seems to work fine except for the
# oddly named structure BIO_F_CTX which needs to be ignored.
# If a code doesn't exist in list compiled from headers then mark it
# with the value "X" as a place holder to give it a value later.
# Store all function and reason codes found in %ufcodes and %urcodes
# so all those unreferenced can be printed out.

```

```

foreach $file (@source) {
# Don't parse the error source file.
next if exists $cskip{$file};
print STDERR "File loaded: ".$file."\\r" if $debug;
open(IN, "<$file") || die "Can't open source file $file\\n";
my $func;
my $linenr = 0;
while(<IN>) {
# skip obsoleted source files entirely!
last if(/^#error\s+obsolete/);
$linenr++;
if (!/;/ && /^\\s*([a-zA-Z_]*[s*])?([A-Za-z_0-9]+)\\.([D,]|$)/)
{
/^[^()]*\\([()]*\\)^\\s*$/;
$1 =~ /([A-Za-z_0-9]*)$/;
$func = $1;
}

if(/(([A-Z0-9]+)_F_([A-Z0-9_]+))/) {
next unless exists $csrc{$2};
next if($1 eq "BIO_F_BUFFER_CTX");
$ufcodes{$1} = 1;
if(!exists $fcodes{$1}) {
$fcodes{$1} = "X";
$fnew{$2}++;
}
$ftrans{$3} = $func unless exists $ftrans{$3};
if (uc $func ne $3) {
print STDERR "ERROR: mismatch $file:$linenr $func:$3\\n";
$errcount++;
}
print STDERR "Function: $1\\t= $fcodes{$1} (lib: $2, name: $3)\\n" if $debug;
}

if(/(([A-Z0-9]+)_R_[A-Z0-9_]+)/) {
next unless exists $csrc{$2};
$urcodes{$1} = 1;

```

```

if(!exists $rcodes{$1}) {
    $rcodes{$1} = "X";
    $nnew{$2}++;
}
print STDERR "Reason: $1\t= $rcodes{$1} (lib: $2)\n" if $debug;
}
}
close IN;
}
print STDERR "                \n" if $debug;

```

Now process each library in turn.

```

foreach $lib (keys %csrc)
{
    my $hfile = $hinc{$lib};
    my $cfile = $csrc{$lib};
    if(!$fnew{$lib} && !$nnew{$lib}) {
        next unless $rebuild;
    } else {
        print STDERR "$lib:\t\t$fnew{$lib} New Functions,";
        print STDERR " $nnew{$lib} New Reasons.\n";
        next unless $dowrite;
    }
}

```

If we get here then we have some new error codes so we
need to rebuild the header file and C file.

Make a sorted list of error and reason codes for later use.

```

my @function = sort grep(/^${lib}_/,keys %fcodes);
my @reasons = sort grep(/^${lib}_/,keys %rcodes);

```

Rewrite the header file

```

$cpp = 0;
$cplusplus = 0;
if (open(IN, "<$hfile")) {
    # Copy across the old file
    while(<IN>) {
        $cplusplus = $cpp if /^#.*ifndef.*cplusplus/;
        $cpp++ if /^#\s*if/;
        $cpp-- if /^#\s*endif/;
        push @out, $_;
        last if (/BEGIN ERROR CODES/);
    }
    close IN;
} else {

```



```

    $cpp = 1;
    $plusplus = 1;
    push @out,
    "/*\n",
    " * Copyright 1995-$YEAR The OpenSSL Project Authors. All Rights Reserved.\n",
    " *\n",
    " * Licensed under the OpenSSL license (the \"License\"). You may not use\n",
    " * this file except in compliance with the License. You can obtain a copy\n",
    " * in the file LICENSE in the source distribution or at\n",
    " * https://www.openssl.org/source/license.html\n",
    " *\n",
    "\n",
    "#ifndef HEADER_{lib}_ERR_H\n",
    "# define HEADER_{lib}_ERR_H\n",
    "\n",
    "# ifdef __cplusplus\n",
    "extern \"C\" {\n",
    "# endif\n",
    "\n",
    "/* BEGIN ERROR CODES *\n",
    }
    open (OUT, ">$file") || die "Can't Open File $file for writing\n";

    print OUT @out;
    undef @out;
    print OUT <<"EOF";
    /*
    * The following lines are auto generated by the script mkerr.pl. Any changes
    * made after this point may be overwritten when the script is next run.
    */

    EOF
    if($static) {
        print OUT <<"EOF";
        ${staticloader}int ERR_load_{lib}_strings(void);

    EOF
    } else {
        print OUT <<"EOF";
        ${staticloader}int ERR_load_{lib}_strings(void);
        ${staticloader}void ERR_unload_{lib}_strings(void);
        ${staticloader}void ERR_{lib}_error(int function, int reason, char *file, int line);
        # define ${lib}err(f,r) ERR_{lib}_error((f),(r),OPENSSL_FILE,OPENSSL_LINE)

    EOF
    }
    print OUT <<"EOF";
    /* Error codes for the $lib functions. */

```

```

/* Function codes. */
EOF

foreach $i (@function) {
    $z=48 - length($i);
    if($fcodes{$i} eq "X") {
        $fassigned{$lib} =~ m/^([:^:]*):/;
        $findcode = $1;
        if (!defined($findcode)) {
            $findcode = $fmax{$lib};
        }
        while ($fassigned{$lib} =~ m/:$findcode:/) {
            $findcode++;
        }
        $fcodes{$i} = $findcode;
        $fassigned{$lib} .= "$findcode:";
        print STDERR "New Function code $i\n" if $debug;
    }
    printf OUT "# define $i%s $fcodes{$i}\n", " " x $z;
}

print OUT "\n/* Reason codes. *\n";

foreach $i (@reasons) {
    $z=48 - length($i);
    if($rcodes{$i} eq "X") {
        $rassigned{$lib} =~ m/^([:^:]*):/;
        $findcode = $1;
        if (!defined($findcode)) {
            $findcode = $rmax{$lib};
        }
        while ($rassigned{$lib} =~ m/:$findcode:/) {
            $findcode++;
        }
        $rcodes{$i} = $findcode;
        $rassigned{$lib} .= "$findcode:";
        print STDERR "New Reason code $i\n" if $debug;
    }
    printf OUT "# define $i%s $rcodes{$i}\n", " " x $z;
}
print OUT <<"EOF";

EOF
do {
    if ($cplusplus == $cpp) {
        print OUT "#, " x $cpp, "ifdef __cplusplus\n";
        print OUT "}\n";
    }
}

```

```

print OUT "#", " "x$cpp, "endif\n";
}
if ($cpp-- > 0) {
print OUT "#", " "x$cpp, "endif\n";
}
} while ($cpp);
close OUT;

# Rewrite the C source file containing the error details.

# First, read any existing reason string definitions:
my %err_reason_strings;
if (open(IN,"<$file")) {
my $line = "";
while (<IN>) {
s|\R$||; # Better chomp
$_ = $line . $_;
$line = "";
if (/({ERR_(FUNC|REASON)}\()/) {
if (\b${lib}_R_\w*)\b.*\"(.*)\"/) {
    $err_reason_strings{$1} = $2;
} elsif (\b${lib}_F_\w*)\b.*\"(.*)\"/) {
if (!exists $ftrans{$1} && ($1 ne $2)) {
    print STDERR "WARNING: Mismatched function string $2\n";
    $ftrans{$1} = $2;
}
} else {
    $line = $_;
}
}
}
close(IN);
}

my $hincf;
if($static) {
$hincf = $hfile;
$hincf =~ s|.*/include/||;
if ($hincf =~ m/^openssl/) {
    $hincf = "<${hincf}>";
} else {
    $hincf = "\"${hincf}\"";
}
} else {
    $hincf = "\"$hfile\"";
}
}

```

```

# If static we know the error code at compile time so use it
# in error definitions.

if ($static)
{
$pack_errcode = "ERR_LIB_${lib}";
$load_errcode = "0";
}
else
{
$pack_errcode = "0";
$load_errcode = "ERR_LIB_${lib}";
}

open (OUT,">$file") || die "Can't open $file for writing";

print OUT <<"EOF";
/*
* Generated by util/mkerr.pl DO NOT EDIT
* Copyright 1995-$YEAR The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the OpenSSL license (the "License"). You may not use
* this file except in compliance with the License. You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#include <stdio.h>
#include <openssl/err.h>
#include $hincf

/* BEGIN ERROR CODES */
#ifndef OPENSSSL_NO_ERR

# define ERR_FUNC(func) ERR_PACK($pack_errcode,func,0)
# define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)

static ERR_STRING_DATA ${lib}_str_funcs[] = {
EOF
# Add each function code: if a function name is found then use it.
foreach $i (@function) {
my $fn;
$i =~ /^${lib}_F_(\S+)/;
$fn = $1;
if(exists $ftrans{$fn}) {
$fn = $ftrans{$fn};
}
}

```

```

# print OUT "{ERR_PACK($pack_errcode,$i,0),\t"$fn"}\n";
if(length($i) + length($fn) > 57) {
    print OUT "  {ERR_FUNC($i),\n  \"$fn"}\n";
} else {
    print OUT "  {ERR_FUNC($i), \"$fn"}\n";
}
}
print OUT <<"EOF";
    {0, NULL}
};

static ERR_STRING_DATA ${lib}_str_reasons[] = {
EOF
# Add each reason code.
foreach $i (@reasons) {
    my $rn;
    my $rstr = "ERR_REASON($i)";
    if (exists $err_reason_strings{$i}) {
        $rn = $err_reason_strings{$i};
    } else {
        $i =~ /^${lib}_R_(\S+)/;
        $rn = $1;
        $rn =~ tr/_[A-Z]/ [a-z]/;
    }
    if(length($i) + length($rn) > 55) {
        print OUT "  ${rstr},\n  \"$rn"}\n";
    } else {
        print OUT "  ${rstr}, \"$rn"}\n";
    }
}
if($static) {
    print OUT <<"EOF";
        {0, NULL}
};

#endif

${staticloader}int ERR_load_${lib}_strings(void)
{
#ifdef OPENSSSL_NO_ERR

    if (ERR_func_error_string(${lib}_str_funcs[0].error) == NULL) {
        ERR_load_strings($load_errcode, ${lib}_str_funcs);
        ERR_load_strings($load_errcode, ${lib}_str_reasons);
    }
#endif
    return 1;
}

```

```

EOF
} else {
    print OUT <<"EOF";
    {0, NULL}
};

#endif

#ifndef ${lib}_LIB_NAME
static ERR_STRING_DATA ${lib}_lib_name[] = {
    {0, ${lib}_LIB_NAME},
    {0, NULL}
};
#endif

static int ${lib}_lib_error_code = 0;
static int ${lib}_error_init = 1;

${staticloader}int ERR_load_${lib}_strings(void)
{
    if (${lib}_lib_error_code == 0)
        ${lib}_lib_error_code = ERR_get_next_error_library();

    if (${lib}_error_init) {
        ${lib}_error_init = 0;
#ifdef OPENSSSL_NO_ERR
        ERR_load_strings(${lib}_lib_error_code, ${lib}_str_funcs);
        ERR_load_strings(${lib}_lib_error_code, ${lib}_str_reasons);
#endif
    }

    if (${lib}_LIB_NAME)
        ${lib}_lib_name->error = ERR_PACK(${lib}_lib_error_code, 0, 0);
    ERR_load_strings(0, ${lib}_lib_name);
}

return 1;
}

${staticloader}void ERR_unload_${lib}_strings(void)
{
    if (${lib}_error_init == 0) {
#ifdef OPENSSSL_NO_ERR
        ERR_unload_strings(${lib}_lib_error_code, ${lib}_str_funcs);
        ERR_unload_strings(${lib}_lib_error_code, ${lib}_str_reasons);
#endif
    }

    if (${lib}_LIB_NAME)
        ERR_unload_strings(0, ${lib}_lib_name);
}

```

```

#endif
    ${lib}_error_init = 1;
}
}

${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
{
    if (${lib}_lib_error_code == 0)
        ${lib}_lib_error_code = ERR_get_next_error_library();
    ERR_PUT_error(${lib}_lib_error_code, function, reason, file, line);
}
EOF

}

close OUT;
undef %err_reason_strings;
}

if($debug && %notrans) {
    print STDERR "The following function codes were not translated:\n";
    foreach(sort keys %notrans)
    {
        print STDERR "$_\n";
    }
}

# Make a list of unreferenced function and reason codes

foreach (keys %fcodes) {
    push (@funref, $_) unless exists $ufcodes[$_];
}

foreach (keys %rcodes) {
    push (@runref, $_) unless exists $urcodes[$_];
}

if($sunref && @funref) {
    print STDERR "The following function codes were not referenced:\n";
    foreach(sort @funref)
    {
        print STDERR "$_\n";
    }
}

if($sunref && @runref) {
    print STDERR "The following reason codes were not referenced:\n";
    foreach(sort @runref)

```

```
{
  print STDERR "$_\n";
}
}
```

```
if($errcount) {
  print STDERR "There were errors, failing...\n\n";
  exit $errcount;
}
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/util/mkerr.pl
```

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```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/asm/rsaz-avx2.pl
```

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# https://www.openssl.org/source/license.html
```

```
# require 'x86asm.pl';
# &asm_init(<flavor>[, $i386only]);
# &function_begin("foo");
# ...
# &function_end("foo");
# &asm_finish
```

```
$out=();
$i386=0;
```

```
# AUTOLOAD in this context has quite unpleasant side effect, namely
# that typos in function calls effectively go to assembler output,
# but on the pros side we don't have to implement one subroutine per
# each opcode...
```



```

sub ::AUTOLOAD
{ my $opcode = $AUTOLOAD;

    die "more than 4 arguments passed to $opcode" if ($#>3);

    $opcode =~ s/.*://;
    if ($opcode =~ /^push/) { $stack+=4; }
    elsif ($opcode =~ /^pop/) { $stack-=4; }

    &generic($opcode,@_) or die "undefined subroutine \&$AUTOLOAD";
}

sub ::emit
{ my $opcode=shift;

    if ($#==1) { push(@out,"\t$opcode\n"); }
    else      { push(@out,"\t$opcode\t".join(',@_).\n"); }
}

sub ::LB
{ $_[0] =~ m/^\e?([a-d])x$/o or die "$_[0] does not have a 'low byte'";
  $1."l";
}

sub ::HB
{ $_[0] =~ m/^\e?([a-d])x$/o or die "$_[0] does not have a 'high byte'";
  $1."h";
}

sub ::stack_push{ my $num=$_[0]*4; $stack+=$num; &sub("esp",$num); }
sub ::stack_pop { my $num=$_[0]*4; $stack-=$num; &add("esp",$num); }
sub ::blindpop { &pop($_[0]); $stack+=4; }
sub ::wparam { &DWP($stack+4*$_[0],"esp"); }
sub ::swtmp { &DWP(4*$_[0],"esp"); }

sub ::bswap
{ if ($i386) # emulate bswap for i386
  { &comment("bswap @_");
    &xchg(&HB(@_),&LB(@_));
    &ror (@_,16);
    &xchg(&HB(@_),&LB(@_));
  }
  else
  { &generic("bswap",@_); }
}

# These are made-up opcodes introduced over the years essentially
# by ignorance, just alias them to real ones...
sub ::movb { &mov(@_); }
sub ::xorb { &xor(@_); }
sub ::rotl { &rol(@_); }

```

```

sub ::rotr { &ror(@_); }
sub ::exch { &xchg(@_); }
sub ::halt { &hlt; }
sub ::movz { &movzx(@_); }
sub ::pushf { &pushfd; }
sub ::popf { &popfd; }

# 3 argument instructions
sub ::movq
{ my($p1,$p2,$optimize)=@_ ;

  if ($optimize && $p1=~/^mm[0-7]$/ && $p2=~/^mm[0-7]$/)
  # movq between mmx registers can sink Intel CPUs
  { &::pshufw($p1,$p2,0xe4); }
  else
  { &::generic("movq",@_); }
}

# SSE>2 instructions
my %regrm = ( "eax"=>0, "ecx"=>1, "edx"=>2, "ebx"=>3,
  "esp"=>4, "ebp"=>5, "esi"=>6, "edi"=>7 );
sub ::pextrd
{ my($dst,$src,$imm)=@_ ;
  if (" $dst:$src" =~ /(e[a-dsd][ixp]):xmm([0-7])/)
  { &::data_byte(0x66,0x0f,0x3a,0x16,0xc0|($2<<3)|$regrm{$1},$imm); }
  else
  { &::generic("pextrd",@_); }
}

sub ::pinsrd
{ my($dst,$src,$imm)=@_ ;
  if (" $dst:$src" =~ /xmm([0-7]):(e[a-dsd][ixp])/)
  { &::data_byte(0x66,0x0f,0x3a,0x22,0xc0|($1<<3)|$regrm{$2},$imm); }
  else
  { &::generic("pinsrd",@_); }
}

sub ::pshufb
{ my($dst,$src)=@_ ;
  if (" $dst:$src" =~ /xmm([0-7]):xmm([0-7])/)
  { &data_byte(0x66,0x0f,0x38,0x00,0xc0|($1<<3)|$2); }
  else
  { &::generic("pshufb",@_); }
}

sub ::palignr
{ my($dst,$src,$imm)=@_ ;
  if (" $dst:$src" =~ /xmm([0-7]):xmm([0-7])/)

```

```

    { &::data_byte(0x66,0x0f,0x3a,0x0f,0xc0|($1<<3)|$2,$imm); }
    else
    { &::generic("palignr",@_); }
}

```

```

sub ::pclmulqdq
{ my($dst,$src,$imm)=@_;
  if ("dst:$src" =~ /xmm([0-7]):xmm([0-7])/)
  { &::data_byte(0x66,0x0f,0x3a,0x44,0xc0|($1<<3)|$2,$imm); }
  else
  { &::generic("pclmulqdq",@_); }
}

```

```

sub ::rdrand
{ my($dst)=@_;
  if ($dst =~ /(e[a-dsd][ixp]/))
  { &::data_byte(0x0f,0xc7,0xf0)$regm{$dst}; }
  else
  { &::generic("rdrand",@_); }
}

```

```

sub ::rdseed
{ my($dst)=@_;
  if ($dst =~ /(e[a-dsd][ixp]/))
  { &::data_byte(0x0f,0xc7,0xf8)$regm{$dst}; }
  else
  { &::generic("rdseed",@_); }
}

```

```

sub rxb {
local *opcode=shift;
my ($dst,$src1,$src2,$rxb)=@_;

$rxb|=0x7<<5;
$rxb&=~(0x04<<5) if($dst>=8);
$rxb&=~(0x01<<5) if($src1>=8);
$rxb&=~(0x02<<5) if($src2>=8);
push @opcode,$rxb;
}

```

```

sub ::vprotd
{ my $args=join(',',@_);
  if ($args =~ /xmm([0-7]),xmm([0-7]),([x0-9a-f]+)/)
  { my @opcode=(0x8f);
    rxb(\@opcode,$1,$2,-1,0x08);
    push @opcode,0x78,0xc2;
    push @opcode,0xc0|($2&7)|((($1&7)<<3)); # ModR/M
    my $c=$3;

```

```

push @opcode,$c=~/^0/?oct($c):$c;
&::data_byte(@opcode);
}
else
{ &::generic("vprot",@_); }
}

sub ::endbranch
{
&::data_byte(0xf3,0x0f,0x1e,0xfb);
}

# label management
$lbdecor="L"; # local label decoration, set by package
$label="000";

sub ::islabel # see is argument is a known label
{ my $i;
  foreach $i (values %label) { return $i if ($i eq $_[0]); }
  $label{ $_[0] }; # can be undef
}

sub ::label # instantiate a function-scope label
{ if (!defined($label{ $_[0] }))
  { $label{ $_[0] }="$lbdecor${label}{ $_[0] }"; $label++; }
  $label{ $_[0] };
}

sub ::LABEL # instantiate a file-scope label
{ $label{ $_[0] }=$_[1] if (!defined($label{ $_[0] }));
  $label{ $_[0] };
}

sub ::static_label { &::LABEL($_[0],$lbdecor.$_[0]); }

sub ::set_label_B { push(@out,"@_:\n"); }
sub ::set_label
{ my $label=&::label($_[0]);
  &::align($_[1]) if ($_[1]>1);
  &::set_label_B($label);
  $label;
}

sub ::wipe_labels # wipes function-scope labels
{ foreach $i (keys %label)
  { delete $label{$i} if ($label{$i} =~ /^Q${lbdecor}\E[0-9]{3}/); }
}

```

```

# subroutine management
sub ::function_begin
{ &function_begin_B(@_);
  $stack=4;
  &push("ebp");
  &push("ebx");
  &push("esi");
  &push("edi");
}

sub ::function_end
{ &pop("edi");
  &pop("esi");
  &pop("ebx");
  &pop("ebp");
  &ret();
  &function_end_B(@_);
  $stack=0;
  &wipe_labels();
}

sub ::function_end_A
{ &pop("edi");
  &pop("esi");
  &pop("ebx");
  &pop("ebp");
  &ret();
  $stack+=16; # readjust esp as if we didn't pop anything
}

sub ::asciz
{ my @str=unpack("C*",shift);
  push @str,0;
  while ($#str>15) {
    &data_byte(@str[0..15]);
    foreach (0..15) { shift @str; }
  }
  &data_byte(@str) if (@str);
}

sub ::asm_finish
{ &file_end();
  print @out;
}

sub ::asm_init
{ my ($type,$cpu)=@_;
```

```
$i386=$cpu;
```

```
$elf=$cpp=$coff=$aout=$macosx=$win32=$mwerks=$android=0;  
if (($type eq "elf"))  
{ $elf=1; require "x86gas.pl"; }  
elsif (($type eq "elf-1"))  
{ $elf=-1; require "x86gas.pl"; }  
elsif (($type eq "a.out"))  
{ $aout=1; require "x86gas.pl"; }  
elsif (($type eq "coff" or $type eq "gaswin"))  
{ $coff=1; require "x86gas.pl"; }  
elsif (($type eq "win32n"))  
{ $win32=1; require "x86nasm.pl"; }  
elsif (($type eq "win32"))  
{ $win32=1; require "x86masm.pl"; }  
elsif (($type eq "macosx"))  
{ $aout=1; $macosx=1; require "x86gas.pl"; }  
elsif (($type eq "android"))  
{ $elf=1; $android=1; require "x86gas.pl"; }  
else  
{ print STDERR <<"EOF";
```

Pick one target type from

elf - Linux, FreeBSD, Solaris x86, etc.

a.out - DJGPP, elder OpenBSD, etc.

coff - GAS/COFF such as Win32 targets

win32n - Windows 95/Windows NT NASM format

macosx - Mac OS X

EOF

```
exit(1);  
}
```

```
$pic=0;
```

```
for (@ARGV) { $pic=1 if (/^\[fK]PIC/i); }
```

```
&file();
```

```
}
```

```
sub ::hidden { }
```

```
1;
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/perlasm/x86asm.pl
```

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

```
* crypto/des/asm/ecb3_enc-octeon.c - Cavium Octeon specific hardware assist
```

* functionality that is to reside within the FIPS canister.

*

* January 2013

*

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*-----

*/

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/crypto/des/asm/ecb3_enc-octeon.c

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* =====

*

* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).

*

*/

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/symhacks.h

No license file was found, but licenses were detected in source scan.

/* -----

* crypto/aes/asm/aes_cbc-octeon.c - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.

*

* January 2013

*

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* -----

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/include/openssl/ecdsa.h
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/mem_clr.c
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/include/openssl/ecdh.h
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/ec/ecdsa.h
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/ec/ecdh.h
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/ec/ec_asn1.c

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/bn/asm/mips-mont.pl
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/bn/asm/ia64-mont.pl
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/sha/asm/sha512-mips.pl

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=====
Written by Andy Polyakov <appro@openssl.org> for the OpenSSL

```

# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGRAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# =====
#
# SHA512 for C64x+.
#
# January 2012
#
# Performance is 19 cycles per processed byte. Compared to block
# transform function from sha512.c compiled with cl6x with -mv6400+
# -o2 -DOPENSSL_SMALL_FOOTPRINT it's almost 7x faster and 2x smaller.
# Loop unroll won't make it, this implementation, any faster, because
# it's effectively dominated by SHRU||SHL pairs and you can't schedule
# more of them.
#
# !!! Note that this module uses AMR, which means that all interrupt
# service routines are expected to preserve it and for own well-being
# zero it upon entry.

while (($output=shift) && ($output!~/\w[\w-]*\.\w+$/)) { }
open STDOUT,">$output";

($CTXA,$INP,$NUM) = ("A4","B4","A6");      # arguments
$K512="A3";

($Ahi,$Actxhi,$Bhi,$Bctxhi,$Chi,$Cctxhi,$Dhi,$Dctxhi,
$Ehi,$Ectxhi,$Fhi,$Fctxhi,$Ghi,$Gctxhi,$Hhi,$Hctxhi)=map("A$_",(16..31));
($Alo,$Actxlo,$Blo,$Bctxlo,$Clo,$Cctxlo,$Dlo,$Dctxlo,
$Elo,$Ectxlo,$Flo,$Fctxlo,$Glo,$Gctxlo,$Hlo,$Hctxlo)=map("B$_",(16..31));

($S1hi,$CHhi,$S0hi,$t0hi)=map("A$_",(10..13));
($S1lo,$CHlo,$S0lo,$t0lo)=map("B$_",(10..13));
($T1hi,    $T2hi)=    ("A6","A7");
($T1lo,$T1carry,$T2lo,$T2carry)=("B6","B7","B8","B9");
($Khi,$Klo)=("A9","A8");
($MAJhi,$MAJlo)=($T2hi,$T2lo);
($t1hi,$t1lo)=($Khi,"B2");
$CTXB=$t1lo;

($Xihi,$Xilo)=("A5","B5"); # circular/ring buffer

$code.=<<<__ ;
.text

.if .ASSEMBLER_VERSION<7000000
.asg 0,__TI_EABI__
.endif

```

```

.if __TI_EABI__
.nocmp
.asg sha512_block_data_order,_sha512_block_data_order
.endif

.asg B3,RA
.asg A15,FP
.asg B15,SP

.if .BIG_ENDIAN
.asg $Khi,KHI
.asg $Klo,KLO
.else
.asg $Khi,KLO
.asg $Klo,KHI
.endif

.global _sha512_block_data_order
_sha512_block_data_order:
__sha512_block:
.asmfnc stack_usage(40+128)
MV $NUM,A0 ;reassign $NUM
|| MVK -128,B0
[!A0] BNOP RA ; if ($NUM==0) return;
|| [A0] STW FP,*SP--(40) ; save frame pointer
|| [A0] MV SP,FP
[A0] STDW B13:B12,*SP[4]
|| [A0] MVK 0x00404,B1
[A0] STDW B11:B10,*SP[3]
|| [A0] STDW A13:A12,*FP[-3]
|| [A0] MVKH 0x60000,B1
[A0] STDW A11:A10,*SP[1]
|| [A0] MVC B1,AMR ; setup circular addressing
|| [A0] ADD B0,SP,SP ; alloca(128)
.if __TI_EABI__
[A0] AND B0,SP,SP ; align stack at 128 bytes
|| [A0] ADDKPC __sha512_block,B1
|| [A0] MVKL \$_PCR_OFFSET(K512,__sha512_block),$K512
[A0] MVKH \$_PCR_OFFSET(K512,__sha512_block),$K512
|| [A0] SUBAW SP,2,SP ; reserve two words above buffer
.else
[A0] AND B0,SP,SP ; align stack at 128 bytes
|| [A0] ADDKPC __sha512_block,B1
|| [A0] MVKL (K512-__sha512_block),$K512
[A0] MVKH (K512-__sha512_block),$K512
|| [A0] SUBAW SP,2,SP ; reserve two words above buffer
.endif
ADDAW SP,3,$Xilo

```

ADDAW SP,2,\$Xihi

```
|| MV $CTXA,$CTXB
LDW *${CTXA}[0^.LITTLE_ENDIAN],$Ahi ; load ctx
|| LDW *${CTXB}[1^.LITTLE_ENDIAN],$Alo
|| ADD B1,$K512,$K512
LDW *${CTXA}[2^.LITTLE_ENDIAN],$Bhi
|| LDW *${CTXB}[3^.LITTLE_ENDIAN],$Blo
LDW *${CTXA}[4^.LITTLE_ENDIAN],$Chi
|| LDW *${CTXB}[5^.LITTLE_ENDIAN],$Clo
LDW *${CTXA}[6^.LITTLE_ENDIAN],$Dhi
|| LDW *${CTXB}[7^.LITTLE_ENDIAN],$Dlo
LDW *${CTXA}[8^.LITTLE_ENDIAN],$Ehi
|| LDW *${CTXB}[9^.LITTLE_ENDIAN],$Elo
LDW *${CTXA}[10^.LITTLE_ENDIAN],$Fhi
|| LDW *${CTXB}[11^.LITTLE_ENDIAN],$Flo
LDW *${CTXA}[12^.LITTLE_ENDIAN],$Ghi
|| LDW *${CTXB}[13^.LITTLE_ENDIAN],$Glo
LDW *${CTXA}[14^.LITTLE_ENDIAN],$Hhi
|| LDW *${CTXB}[15^.LITTLE_ENDIAN],$Hlo
```

```
LDNDW *$INP++,B11:B10 ; pre-fetch input
LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[0]
```

outerloop?:

```
MVK 15,B0 ; loop counters
```

```
|| MVK 64,B1
|| SUB A0,1,A0
MV $Ahi,$Actxhi
|| MV $Alo,$Actxlo
|| MV $Bhi,$Bctxhi
|| MV $Blo,$Bctxlo
|| MV $Chi,$Cctxhi
|| MV $Clo,$Cctxlo
|| MVD $Dhi,$Dctxhi
|| MVD $Dlo,$Dctxlo
MV $Ehi,$Ectxhi
|| MV $Elo,$Ectxlo
|| MV $Fhi,$Fctxhi
|| MV $Flo,$Fctxlo
|| MV $Ghi,$Gctxhi
|| MV $Glo,$Gctxlo
|| MVD $Hhi,$Hctxhi
|| MVD $Hlo,$Hctxlo
```

loop0_15?:

```
.if .BIG_ENDIAN
```

```
MV B11,$T1hi
```

```
|| MV B10,$T1lo
```

```
.else
```

```

SWAP4 B10,$T1hi
|| SWAP4 B11,$T1lo
SWAP2 $T1hi,$T1hi
|| SWAP2 $T1lo,$T1lo
.endif
loop16_79?:
STW $T1hi,*$Xihi++[2]
|| STW $T1lo,*$Xilo++[2] ; X[i] = T1
|| ADD $Hhi,$T1hi,$T1hi
|| ADDU $Hlo,$T1lo,$T1carry:$T1lo ; T1 += h
|| SHRU $Ehi,14,$S1hi
|| SHL $Ehi,32-14,$S1lo
XOR $Fhi,$Ghi,$CHhi
|| XOR $Flo,$Glo,$CHlo
|| ADD KHI,$T1hi,$T1hi
|| ADDU KLO,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += K512[i]
|| SHRU $Elo,14,$t0lo
|| SHL $Elo,32-14,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Ehi,$CHhi,$CHhi
|| AND $Elo,$CHlo,$CHlo
|| ROTL $Ghi,0,$Hhi
|| ROTL $Glo,0,$Hlo ; h = g
|| SHRU $Ehi,18,$t0hi
|| SHL $Ehi,32-18,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| XOR $Ghi,$CHhi,$CHhi
|| XOR $Glo,$CHlo,$CHlo ; Ch(e,f,g) = ((f^g)&e)^g
|| ROTL $Fhi,0,$Ghi
|| ROTL $Flo,0,$Glo ; g = f
|| SHRU $Elo,18,$t0lo
|| SHL $Elo,32-18,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| OR $Ahi,$Bhi,$MAJhi
|| OR $Alo,$Blo,$MAJlo
|| ROTL $Ehi,0,$Fhi
|| ROTL $Elo,0,$Flo ; f = e
|| SHRU $Ehi,41-32,$t0lo
|| SHL $Ehi,64-41,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| AND $Chi,$MAJhi,$MAJhi
|| AND $Clo,$MAJlo,$MAJlo
|| ROTL $Dhi,0,$Ehi
|| ROTL $Dlo,0,$Elo ; e = d

```

```

|| SHRU $Elo,41-32,$t0hi
|| SHL $Elo,64-41,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo ; Sigma1(e)
|| AND $Ahi,$Bhi,$t1hi
|| AND $Alo,$Blo,$t1lo
|| ROTL $Chi,0,$Dhi
|| ROTL $Clo,0,$Dlo ; d = c
|| SHRU $Ahi,28,$S0hi
|| SHL $Ahi,32-28,$S0lo
OR $t1hi,$MAJhi,$MAJhi
|| OR $t1lo,$MAJlo,$MAJlo ; Maj(a,b,c) = ((a|b)&c)|(a&b)
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Ch(e,f,g)
|| ROTL $Bhi,0,$Chi
|| ROTL $Blo,0,$Clo ; c = b
|| SHRU $Alo,28,$t0lo
|| SHL $Alo,32-28,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += Sigma1(e)
|| ROTL $Ahi,0,$Bhi
|| ROTL $Alo,0,$Blo ; b = a
|| SHRU $Ahi,34-32,$t0lo
|| SHL $Ahi,64-34,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $MAJhi,$T1hi,$T2hi
|| ADDU $MAJlo,$T1carry:$T1lo,$T2carry:$T2lo ; T2 = T1+Maj(a,b,c)
|| SHRU $Alo,34-32,$t0hi
|| SHL $Alo,64-34,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $Ehi,$T1hi,$T1hi
|| ADDU $Elo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += e
|| [B0] BNOP loop0_15?
|| SHRU $Ahi,39-32,$t0lo
|| SHL $Ahi,64-39,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| [B0] LDNDW *$INP++,B11:B10 ; pre-fetch input
||[!B1] BNOP break?
|| SHRU $Alo,39-32,$t0hi
|| SHL $Alo,64-39,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo ; Sigma0(a)
|| ADD $T1carry,$T1hi,$Ehi

```

```

|| MV $T1lo,$Elo ; e = T1
||[!B0] LDW *${Xihi}[28],$T1hi
||[!B0] LDW *${Xilo}[28],$T1lo ; X[i+14]
ADD $S0hi,$T2hi,$T2hi
|| ADDU $S0lo,$T2carry:$T2lo,$T2carry:$T2lo ; T2 += Sigma0(a)
|| [B1] LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[i]
NOP ; avoid cross-path stall
ADD $T2carry,$T2hi,$Ahi
|| MV $T2lo,$Alo ; a = T2
|| [B0] SUB B0,1,B0
;===== branch to loop00_15? is taken here
NOP
;===== branch to break? is taken here
LDW *${Xihi}[2],$T2hi
|| LDW *${Xilo}[2],$T2lo ; X[i+1]
|| SHRU $T1hi,19,$S1hi
|| SHL $T1hi,32-19,$S1lo
SHRU $T1lo,19,$t0lo
|| SHL $T1lo,32-19,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,61-32,$t0lo
|| SHL $T1hi,64-61,$t0hi
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,61-32,$t0hi
|| SHL $T1lo,64-61,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1hi,6,$t0hi
|| SHL $T1hi,32-6,$t0lo
XOR $t0hi,$S1hi,$S1hi
|| XOR $t0lo,$S1lo,$S1lo
|| SHRU $T1lo,6,$t0lo
|| LDW *${Xihi}[18],$T1hi
|| LDW *${Xilo}[18],$T1lo ; X[i+9]
XOR $t0lo,$S1lo,$S1lo ; sigma1(Xi[i+14])

|| LDW *${Xihi}[0],$CHhi
|| LDW *${Xilo}[0],$CHlo ; X[i]
|| SHRU $T2hi,1,$S0hi
|| SHL $T2hi,32-1,$S0lo
SHRU $T2lo,1,$t0lo
|| SHL $T2lo,32-1,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2hi,8,$t0hi
|| SHL $T2hi,32-8,$t0lo

```

```

XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| SHRU $T2lo,8,$t0lo
|| SHL $T2lo,32-8,$t0hi
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $S1hi,$T1hi,$T1hi
|| ADDU $S1lo,$T1lo,$T1carry:$T1lo ; T1 = X[i+9]+sigma1()
|| [B1] BNOP loop16_79?
|| SHRU $T2hi,7,$t0hi
|| SHL $T2hi,32-7,$t0lo
XOR $t0hi,$S0hi,$S0hi
|| XOR $t0lo,$S0lo,$S0lo
|| ADD $CHhi,$T1hi,$T1hi
|| ADDU $CHlo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += X[i]
|| SHRU $T2lo,7,$t0lo
XOR $t0lo,$S0lo,$S0lo ; sigma0(Xi[i+1])

ADD $S0hi,$T1hi,$T1hi
|| ADDU $S0lo,$T1carry:$T1lo,$T1carry:$T1lo ; T1 += sigma0()
|| [B1] SUB B1,1,B1
NOP ; avoid cross-path stall
ADD $T1carry,$T1hi,$T1hi
;===== branch to loop16_79? is taken here

break?:
ADD $Ahi,$Actxhi,$Ahi ; accumulate ctx
|| ADDU $Alo,$Actxlo,$Actxlo:$Alo
|| [A0] LDNDW *$INP++,B11:B10 ; pre-fetch input
|| [A0] ADDK -640,$K512 ; rewind pointer to K512
ADD $Bhi,$Bctxhi,$Bhi
|| ADDU $Blo,$Bctxlo,$Bctxlo:$Blo
|| [A0] LDDW *$K512+,$Khi:$Klo ; pre-fetch K512[0]
ADD $Chi,$Cctxhi,$Chi
|| ADDU $Clo,$Cctxlo,$Cctxlo:$Clo
|| ADD $Actxlo,$Ahi,$Ahi
||[!A0] MV $CTXA,$CTXB
ADD $Dhi,$Dctxhi,$Dhi
|| ADDU $Dlo,$Dctxlo,$Dctxlo:$Dlo
|| ADD $Bctxlo,$Bhi,$Bhi
||[!A0] STW $Ahi,*${CTXA}[0^.LITTLE_ENDIAN] ; save ctx
||[!A0] STW $Alo,*${CTXB}[1^.LITTLE_ENDIAN]
ADD $Ehi,$Ectxhi,$Ehi
|| ADDU $Elo,$Ectxlo,$Ectxlo:$Elo
|| ADD $Cctxlo,$Chi,$Chi
|| [A0] BNOP outerloop?
||[!A0] STW $Bhi,*${CTXA}[2^.LITTLE_ENDIAN]
||[!A0] STW $Blo,*${CTXB}[3^.LITTLE_ENDIAN]

```



```

ADD $Fhi,$Fctxhi,$Fhi
|| ADDU $Flo,$Fctxlo,$Fctxlo:$Flo
|| ADD $Dctxlo,$Dhi,$Dhi
||[!A0] STW $Chi,*${CTXA}[4^.LITTLE_ENDIAN]
||[!A0] STW $Clo,*${CTXB}[5^.LITTLE_ENDIAN]
ADD $Ghi,$Gctxhi,$Ghi
|| ADDU $Glo,$Gctxlo,$Gctxlo:$Glo
|| ADD $Ectxlo,$Ehi,$Ehi
||[!A0] STW $Dhi,*${CTXA}[6^.LITTLE_ENDIAN]
||[!A0] STW $Dlo,*${CTXB}[7^.LITTLE_ENDIAN]
ADD $Hhi,$Hctxhi,$Hhi
|| ADDU $Hlo,$Hctxlo,$Hctxlo:$Hlo
|| ADD $Fctxlo,$Fhi,$Fhi
||[!A0] STW $Ehi,*${CTXA}[8^.LITTLE_ENDIAN]
||[!A0] STW $Elo,*${CTXB}[9^.LITTLE_ENDIAN]
ADD $Gctxlo,$Ghi,$Ghi
||[!A0] STW $Fhi,*${CTXA}[10^.LITTLE_ENDIAN]
||[!A0] STW $Flo,*${CTXB}[11^.LITTLE_ENDIAN]
ADD $Hctxlo,$Hhi,$Hhi
||[!A0] STW $Ghi,*${CTXA}[12^.LITTLE_ENDIAN]
||[!A0] STW $Glo,*${CTXB}[13^.LITTLE_ENDIAN]
;===== branch to outerloop? is taken here

```

```

STW $Hhi,*${CTXA}[14^.LITTLE_ENDIAN]
|| STW $Hlo,*${CTXB}[15^.LITTLE_ENDIAN]
|| MVK -40,B0
ADD FP,B0,SP ; destroy circular buffer
|| LDDW *FP[-4],A11:A10
LDDW *SP[2],A13:A12
|| LDDW *FP[-2],B11:B10
LDDW *SP[4],B13:B12
|| BNOP RA
LDW *++SP(40),FP ; restore frame pointer
MVK 0,B0
MVC B0,AMR ; clear AMR
NOP 2 ; wait till FP is committed
.endasmfunc

```

```

.if __TI_EABI__
.sect ".text:sha_asm.const"
.else
.sect ".const:sha_asm"
.endif
.align 128
K512:
.uword 0x428a2f98,0xd728ae22, 0x71374491,0x23ef65cd
.uword 0xb5c0fbcf,0xec4d3b2f, 0xe9b5dba5,0x8189dbbc
.uword 0x3956c25b,0xf348b538, 0x59f111f1,0xb605d019

```

```
.uword 0x923f82a4,0xaf194f9b, 0xab1c5ed5,0xda6d8118
.uword 0xd807aa98,0xa3030242, 0x12835b01,0x45706fbe
.uword 0x243185be,0x4ee4b28c, 0x550c7dc3,0xd5ffb4e2
.uword 0x72be5d74,0xf27b896f, 0x80deb1fe,0x3b1696b1
.uword 0x9bdc06a7,0x25c71235, 0xc19bf174,0xcf692694
.uword 0xe49b69c1,0x9ef14ad2, 0xefbe4786,0x384f25e3
.uword 0x0fc19dc6,0x8b8cd5b5, 0x240ca1cc,0x77ac9c65
.uword 0x2de92c6f,0x592b0275, 0x4a7484aa,0x6ea6e483
.uword 0x5cb0a9dc,0xbd41fbd4, 0x76f988da,0x831153b5
.uword 0x983e5152,0xee66dfab, 0xa831c66d,0x2db43210
.uword 0xb00327c8,0x98fb213f, 0xbf597fc7,0xbeef0ee4
.uword 0xc6e00bf3,0x3da88fc2, 0xd5a79147,0x930aa725
.uword 0x06ca6351,0xe003826f, 0x14292967,0x0a0e6e70
.uword 0x27b70a85,0x46d22ffc, 0x2e1b2138,0x5c26c926
.uword 0x4d2c6dfc,0x5ac42aed, 0x53380d13,0x9d95b3df
.uword 0x650a7354,0x8baf63de, 0x766a0abb,0x3c77b2a8
.uword 0x81c2c92e,0x47edaae6, 0x92722c85,0x1482353b
.uword 0xa2bfe8a1,0x4cf10364, 0xa81a664b,0xbc423001
.uword 0xc24b8b70,0xd0f89791, 0xc76c51a3,0x0654be30
.uword 0xd192e819,0xd6ef5218, 0xd6990624,0x5565a910
.uword 0xf40e3585,0x5771202a, 0x106aa070,0x32bbd1b8
.uword 0x19a4c116,0xb8d2d0c8, 0x1e376c08,0x5141ab53
.uword 0x2748774c,0xdf8eeb99, 0x34b0bcb5,0xe19b48a8
.uword 0x391c0cb3,0xc5c95a63, 0x4ed8aa4a,0xe3418acb
.uword 0x5b9cca4f,0x7763e373, 0x682e6ff3,0xd6b2b8a3
.uword 0x748f82ee,0x5defb2fc, 0x78a5636f,0x43172f60
.uword 0x84c87814,0xa1f0ab72, 0x8cc70208,0x1a6439ec
.uword 0x90befffa,0x23631e28, 0xa4506ceb,0xde82bde9
.uword 0xbef9a3f7,0xb2c67915, 0xc67178f2,0xe372532b
.uword 0xca273ece,0xea26619c, 0xd186b8c7,0x21c0c207
.uword 0xeada7dd6,0xcde0eb1e, 0xf57d4f7f,0xee6ed178
.uword 0x06f067aa,0x72176fba, 0x0a637dc5,0xa2c898a6
.uword 0x113f9804,0xbef90dae, 0x1b710b35,0x131c471b
.uword 0x28db77f5,0x23047d84, 0x32caab7b,0x40c72493
.uword 0x3c9ebe0a,0x15c9bebc, 0x431d67c4,0x9c100d4c
.uword 0x4cc5d4be,0xcb3e42b6, 0x597f299c,0xfc657e2a
.uword 0x5fcb6fab,0x3ad6faec, 0x6c44198c,0x4a475817
.cstring "SHA512 block transform for C64x+, CRYPTOGRAMS by <appro\@openssl.org>"
.align 4
```

—

```
print $code;
close STDOUT;
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/sha/asm/sha512-c64xplus.pl
```

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7.2a.202104051307/crypto/aes/asm/aesni-sha256-x86_64.pl  
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-  
7.2a.202104051307/crypto/modes/asm/aesni-gcm-x86_64.pl  
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-  
7.2a.202104051307/crypto/aes/asm/aesni-mb-x86_64.pl  
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-  
7.2a.202104051307/crypto/sha/asm/sha256-mb-x86_64.pl  
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-  
7.2a.202104051307/crypto/sha/asm/sha1-mb-x86_64.pl
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*/
```

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7.2a.202104051307/crypto/arm_arch.h  
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-  
7.2a.202104051307/crypto/bn/bn_x931p.c
```

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* https://www.openssl.org/source/license.html  
*  
* Originally written by Shay Gueron (1, 2), and Vlad Krasnov (1)  
* (1) Intel Corporation, Israel Development Center, Haifa, Israel  
* (2) University of Haifa, Israel
```

*/

Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/rsaz_exp.h

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscoverl-fom-7-2a-202104051307-tar-gz/ciscoverl-fom-7.2a.202104051307/crypto/bn/bn_lcl.h

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscoverl-fom-7-2a-202104051307-tar-gz/ciscoverl-fom-7.2a.202104051307/crypto/bn/bn_add.c

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/bn_lcl.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/hmac/hmac_lcl.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/hmac.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/bn_mul.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/dsa.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/evp/evp_lib.c
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/bn_rand.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/bio.h
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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/ex_data.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/bn_sqr.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/dsa/dsa.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/rsa.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/include/openssl/dh.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/evp/e_des3.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/bn/bn_mont.c
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/rsa/rsa.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/dh/dh.h
* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/hmac/hmac.h

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/*-----

* fips/kdf/fips_kdf_snmp.c - SNMP KDF vector tests

*

* March 2015

*

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocssl-fom-7-2a-202104051307-tar-gz/cissocssl-fom-7.2a.202104051307/fips/kdf/fips_kdf_snmp.c

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/include/openssl/asn1t.h

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7.2a.202104051307/crypto/o_str.h

```

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```

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#
# =====
# Written by Andy Polyakov <appro@openssl.org> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# =====
#
# GHASH for for PowerISA v2.07.
#

```

```

# July 2014
#
# Accurate performance measurements are problematic, because it's
# always virtualized setup with possibly throttled processor.
# Relative comparison is therefore more informative. This initial
# version is ~2.1x slower than hardware-assisted AES-128-CTR, ~12x
# faster than "4-bit" integer-only compiler-generated 64-bit code.
# "Initial version" means that there is room for further improvement.

# May 2016
#
# 2x aggregated reduction improves performance by 50% (resulting
# performance on POWER8 is 1 cycle per processed byte), and 4x
# aggregated reduction - by 170% or 2.7x (resulting in 0.55 cpb).
# POWER9 delivers 0.51 cpb.

$flavour=shift;
$output =shift;

if ($flavour =~ /64/) {
    $SIZE_T=8;
    $LRSIZE=2*$SIZE_T;
    $STU="stdu";
    $POP="ld";
    $PUSH="std";
    $UCMP="cmpld";
    $SHRI="srdi";
} elsif ($flavour =~ /32/) {
    $SIZE_T=4;
    $LRSIZE=$SIZE_T;
    $STU="stwu";
    $POP="lwz";
    $PUSH="stw";
    $UCMP="cmplw";
    $SHRI="srwi";
} else { die "nonsense $flavour"; }

$sp="r1";
$FRAME=6*$SIZE_T+13*16; # 13*16 is for v20-v31 offload

$0 =~ m/(.*[\\])[^\\]+$/; $dir=$1;
( $xlate="{ $dir }ppc-xlate.pl" and -f $xlate ) or
( $xlate="{ $dir }../perlasm/ppc-xlate.pl" and -f $xlate ) or
die "can't locate ppc-xlate.pl";

open STDOUT,"|^X $xlate $flavour $output" || die "can't call $xlate: $!";

my ($Xip,$Htbl,$Inp,$len)=map("r$_",(3..6)); # argument block

```

```

my ($Xl,$Xm,$Xh,$IN)=map("v$_",(0..3));
my ($zero,$t0,$t1,$t2,$xC2,$H,$Hh,$Hl,$lemask)=map("v$_",(4..12));
my ($Xl1,$Xm1,$Xh1,$IN1,$H2,$H2h,$H2l)=map("v$_",(13..19));
my $vrsave="r12";

```

```

$code=<<___.
.machine "any"

```

```

.text

```

```

.globl .gcm_init_p8
.align 5
.gcm_init_p8:
li r0,-4096
li r8,0x10
mfspr $vrsave,256
li r9,0x20
mtspr 256,r0
li r10,0x30
lvx_u $H,0,r4 # load H

vspltisb $xC2,-16 # 0xf0
vspltisb $t0,1 # one
vaddubm $xC2,$xC2,$xC2 # 0xe0
vxor $zero,$zero,$zero
vor $xC2,$xC2,$t0 # 0xe1
vsldoi $xC2,$xC2,$zero,15 # 0xe1...
vsldoi $t1,$zero,$t0,1 # ...1
vaddubm $xC2,$xC2,$xC2 # 0xc2...
vspltisb $t2,7
vor $xC2,$xC2,$t1 # 0xc2....01
vspltb $t1,$H,0 # most significant byte
vsl $H,$H,$t0 # H<<=1
vsrab $t1,$t1,$t2 # broadcast carry bit
vand $t1,$t1,$xC2
vxor $IN,$H,$t1 # twisted H

vsldoi $H,$IN,$IN,8 # twist even more ...
vsldoi $xC2,$zero,$xC2,8 # 0xc2.0
vsldoi $Hl,$zero,$H,8 # ... and split
vsldoi $Hh,$H,$zero,8

stvx_u $xC2,0,r3 # save pre-computed table
stvx_u $Hl,r8,r3
li r8,0x40
stvx_u $H, r9,r3
li r9,0x50

```

```

stvx_u $Hh,r10,r3
li r10,0x60

vpmsumd $Xl,$IN,$Hl # H.lo-H.lo
vpmsumd $Xm,$IN,$H # H.hi-H.lo+H.lo-H.hi
vpmsumd $Xh,$IN,$Hh # H.hi-H.hi

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1

vsldoi $Xl,$Xl,$Xl,8
vxor $Xl,$Xl,$t2

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vpmsumd $Xl,$Xl,$xC2
vxor $t1,$t1,$Xh
vxor $IN1,$Xl,$t1

vsldoi $H2,$IN1,$IN1,8
vsldoi $H2l,$zero,$H2,8
vsldoi $H2h,$H2,$zero,8

stvx_u $H2l,r8,r3 # save H^2
li r8,0x70
stvx_u $H2,r9,r3
li r9,0x80
stvx_u $H2h,r10,r3
li r10,0x90

—
{
my ($t4,$t5,$t6) = ($Hl,$H,$Hh);
$code.=<<<___;
vpmsumd $Xl,$IN,$H2l # H.lo-H^2.lo
vpmsumd $Xl1,$IN1,$H2l # H^2.lo-H^2.lo
vpmsumd $Xm,$IN,$H2 # H.hi-H^2.lo+H.lo-H^2.hi
vpmsumd $Xm1,$IN1,$H2 # H^2.hi-H^2.lo+H^2.lo-H^2.hi
vpmsumd $Xh,$IN,$H2h # H.hi-H^2.hi
vpmsumd $Xh1,$IN1,$H2h # H^2.hi-H^2.hi

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase
vpmsumd $t6,$Xl1,$xC2 # 1st reduction phase

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8

```

```

vsldoi $t4,$Xm1,$zero,8
vsldoi $t5,$zero,$Xm1,8
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1
vxor $Xl1,$Xl1,$t4
vxor $Xh1,$Xh1,$t5

vsldoi $Xl,$Xl,$Xl,8
vsldoi $Xl1,$Xl1,$Xl1,8
vxor $Xl,$Xl,$t2
vxor $Xl1,$Xl1,$t6

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vsldoi $t5,$Xl1,$Xl1,8 # 2nd reduction phase
vpmsumd $Xl,$Xl,$xC2
vpmsumd $Xl1,$Xl1,$xC2
vxor $t1,$t1,$Xh
vxor $t5,$t5,$Xh1
vxor $Xl,$Xl,$t1
vxor $Xl1,$Xl1,$t5

vsldoi $H,$Xl,$Xl,8
vsldoi $H2,$Xl1,$Xl1,8
vsldoi $Hl,$zero,$H,8
vsldoi $Hh,$H,$zero,8
vsldoi $H2l,$zero,$H2,8
vsldoi $H2h,$H2,$zero,8

stvx_u $Hl,r8,r3 # save H^3
li r8,0xa0
stvx_u $H,r9,r3
li r9,0xb0
stvx_u $Hh,r10,r3
li r10,0xc0
stvx_u $H2l,r8,r3 # save H^4
stvx_u $H2,r9,r3
stvx_u $H2h,r10,r3

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,2,0
.long 0
.size .gcm_init_p8,-.gcm_init_p8
___
}
$code.=<<___;
.globl .gcm_gmult_p8

```

```

.align 5
.gcm_gmult_p8:
lis r0,0xffff8
li r8,0x10
mfspr $vrsave,256
li r9,0x20
mfspr 256,r0
li r10,0x30
lvx_u $IN,0,$Xip # load Xi

lvx_u $Hl,r8,$Htbl # load pre-computed table
le?lvsl $lemask,r0,r0
lvx_u $H, r9,$Htbl
le?vspltsb $t0,0x07
lvx_u $Hh,r10,$Htbl
le?vxor $lemask,$lemask,$t0
lvx_u $xC2,0,$Htbl
le?vperm $IN,$IN,$IN,$lemask
vxor $zero,$zero,$zero

vpmsumd $Xl,$IN,$Hl # H.lo·Xi.lo
vpmsumd $Xm,$IN,$H # H.hi·Xi.lo+H.lo·Xi.hi
vpmsumd $Xh,$IN,$Hh # H.hi·Xi.hi

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1

vsldoi $Xl,$Xl,$Xl,8
vxor $Xl,$Xl,$t2

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vpmsumd $Xl,$Xl,$xC2
vxor $t1,$t1,$Xh
vxor $Xl,$Xl,$t1

le?vperm $Xl,$Xl,$Xl,$lemask
stvx_u $Xl,0,$Xip # write out Xi

mfspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,2,0
.long 0
.size .gcm_gmult_p8,-.gcm_gmult_p8

```

```

.globl .gcm_ghash_p8
.align 5
.gcm_ghash_p8:
li r0,-4096
li r8,0x10
mfspr $vrsave,256
li r9,0x20
mfspr 256,r0
li r10,0x30
lvx_u $X1,0,$Xip # load Xi

lvx_u $H1,r8,$Htbl # load pre-computed table
li r8,0x40
le?lvsl $lemask,r0,r0
lvx_u $H, r9,$Htbl
li r9,0x50
le?vspltsb $t0,0x07
lvx_u $Hh,r10,$Htbl
li r10,0x60
le?vxor $lemask,$lemask,$t0
lvx_u $xC2,0,$Htbl
le?vperm $X1,$X1,$X1,$lemask
vxor $zero,$zero,$zero

${UCMP}i $len,64
bge Lgcm_ghash_p8_4x

lvx_u $IN,0,$inp
addi $inp,$inp,16
subic. $len,$len,16
le?vperm $IN,$IN,$IN,$lemask
vxor $IN,$IN,$X1
beq Lshort

lvx_u $H2l,r8,$Htbl # load H^2
li r8,16
lvx_u $H2, r9,$Htbl
add r9,$inp,$len # end of input
lvx_u $H2h,r10,$Htbl
be?b Loop_2x

.align 5
Loop_2x:
lvx_u $IN1,0,$inp
le?vperm $IN1,$IN1,$IN1,$lemask

subic $len,$len,32

```



```

vpmsumd $Xl,$IN,$H2l # H^2.lo·Xi.lo
vpmsumd $Xl1,$IN1,$Hl # H.lo·Xi+1.lo
subfe r0,r0,r0 # borrow?-1:0
vpmsumd $Xm,$IN,$H2 # H^2.hi·Xi.lo+H^2.lo·Xi.hi
vpmsumd $Xm1,$IN1,$H # H.hi·Xi+1.lo+H.lo·Xi+1.hi
and r0,r0,$len
vpmsumd $Xh,$IN,$H2h # H^2.hi·Xi.hi
vpmsumd $Xh1,$IN1,$Hh # H.hi·Xi+1.hi
add $inp,$inp,r0

```

```

vxor $Xl,$Xl,$Xl1
vxor $Xm,$Xm,$Xm1

```

```

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase

```

```

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xh,$Xh,$Xh1
vxor $Xl,$Xl,$t0
vxor $Xh,$Xh,$t1

```

```

vsldoi $Xl,$Xl,$Xl,8
vxor $Xl,$Xl,$t2
lvx_u $IN,r8,$inp
addi $inp,$inp,32

```

```

vsldoi $t1,$Xl,$Xl,8 # 2nd reduction phase
vpmsumd $Xl,$Xl,$xC2
le?vperm $IN,$IN,$IN,$lemask
vxor $t1,$t1,$Xh
vxor $IN,$IN,$t1
vxor $IN,$IN,$Xl
$UCMP r9,$inp
bgt Loop_2x # done yet?

```

```

cmplwi $len,0
bne Leven

```

Lshort:

```

vpmsumd $Xl,$IN,$Hl # H.lo·Xi.lo
vpmsumd $Xm,$IN,$H # H.hi·Xi.lo+H.lo·Xi.hi
vpmsumd $Xh,$IN,$Hh # H.hi·Xi.hi

```

```

vpmsumd $t2,$Xl,$xC2 # 1st reduction phase

```

```

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xl,$Xl,$t0

```

```

vxor $Xh,$Xh,$t1

vsldoi $X1,$X1,$X1,8
vxor $X1,$X1,$t2

vsldoi $t1,$X1,$X1,8 # 2nd reduction phase
vpmsumd $X1,$X1,$xC2
vxor $t1,$t1,$Xh

Leven:
vxor $X1,$X1,$t1
le?vperm $X1,$X1,$X1,$lemask
stvx_u $X1,0,$Xip # write out Xi

mtspr 256,$vrsave
blr
.long 0
.byte 0,12,0x14,0,0,0,4,0
.long 0

—
{
my ($Xl3,$Xm2,$IN2,$H3l,$H3,$H3h,
    $Xh3,$Xm3,$IN3,$H4l,$H4,$H4h) = map("v$_",(20..31));
my $IN0=$IN;
my ($H2l1,$H2l1h,$loperm,$hiperm) = ($Hl,$Hh,$H2l,$H2h);

$code.=<<___;
.align 5
.gcm_ghash_p8_4x:
Lgcm_ghash_p8_4x:
$STU $sp,-$FRAME($sp)
li r10,`15+6*$SIZE_T`
li r11,`31+6*$SIZE_T`
stvx v20,r10,$sp
addi r10,r10,32
stvx v21,r11,$sp
addi r11,r11,32
stvx v22,r10,$sp
addi r10,r10,32
stvx v23,r11,$sp
addi r11,r11,32
stvx v24,r10,$sp
addi r10,r10,32
stvx v25,r11,$sp
addi r11,r11,32
stvx v26,r10,$sp
addi r10,r10,32
stvx v27,r11,$sp

```

```

addi r11,r11,32
stvx v28,r10,$sp
addi r10,r10,32
stvx v29,r11,$sp
addi r11,r11,32
stvx v30,r10,$sp
li r10,0x60
stvx v31,r11,$sp
li r0,-1
stw $vrsave,`$FRAME-4`($sp) # save vrsave
mtspr 256,r0 # preserve all AltiVec registers

```

```

lvsl $t0,0,r8 # 0x0001..0e0f
#lvx_u $H2l,r8,$Htbl # load H^2
li r8,0x70
lvx_u $H2, r9,$Htbl
li r9,0x80
vspltisb $t1,8 # 0x0808..0808
#lvx_u $H2h,r10,$Htbl
li r10,0x90
lvx_u $H3l,r8,$Htbl # load H^3
li r8,0xa0
lvx_u $H3, r9,$Htbl
li r9,0xb0
lvx_u $H3h,r10,$Htbl
li r10,0xc0
lvx_u $H4l,r8,$Htbl # load H^4
li r8,0x10
lvx_u $H4, r9,$Htbl
li r9,0x20
lvx_u $H4h,r10,$Htbl
li r10,0x30

```

```

vsldoi $t2,$zero,$t1,8 # 0x0000..0808
vaddubm $hiperm,$t0,$t2 # 0x0001..1617
vaddubm $loperm,$t1,$hiperm # 0x0809..1e1f

```

```

$SHRI $len,$len,4 # this allows to use sign bit
# as carry

```

```

lvx_u $IN0,0,$inp # load input
lvx_u $IN1,r8,$inp
subic. $len,$len,8
lvx_u $IN2,r9,$inp
lvx_u $IN3,r10,$inp
addi $inp,$inp,0x40
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask
le?vperm $IN2,$IN2,$IN2,$lemask

```

le?vperm \$IN3,\$IN3,\$IN3,\$lemask

vxor \$Xh,\$IN0,\$Xl

vpmsumd \$Xl1,\$IN1,\$H3l

vpmsumd \$Xm1,\$IN1,\$H3

vpmsumd \$Xh1,\$IN1,\$H3h

vperm \$H2l1,\$H2,\$H,\$hiperm

vperm \$t0,\$IN2,\$IN3,\$loperm

vperm \$H2lh,\$H2,\$H,\$loperm

vperm \$t1,\$IN2,\$IN3,\$hiperm

vpmsumd \$Xm2,\$IN2,\$H2 # $H^{2.lo} \cdot X_{i+2}.hi + H^{2.hi} \cdot X_{i+2}.lo$

vpmsumd \$Xl3,\$t0,\$H2l1 # $H^{2.lo} \cdot X_{i+2}.lo + H.lo \cdot X_{i+3}.lo$

vpmsumd \$Xm3,\$IN3,\$H # $H.hi \cdot X_{i+3}.lo + H.lo \cdot X_{i+3}.hi$

vpmsumd \$Xh3,\$t1,\$H2lh # $H^{2.hi} \cdot X_{i+2}.hi + H.hi \cdot X_{i+3}.hi$

vxor \$Xm2,\$Xm2,\$Xm1

vxor \$Xl3,\$Xl3,\$Xl1

vxor \$Xm3,\$Xm3,\$Xm2

vxor \$Xh3,\$Xh3,\$Xh1

blt Ltail_4x

Loop_4x:

lvx_u \$IN0,0,\$inp

lvx_u \$IN1,r8,\$inp

subic. \$len,\$len,4

lvx_u \$IN2,r9,\$inp

lvx_u \$IN3,r10,\$inp

addi \$inp,\$inp,0x40

le?vperm \$IN1,\$IN1,\$IN1,\$lemask

le?vperm \$IN2,\$IN2,\$IN2,\$lemask

le?vperm \$IN3,\$IN3,\$IN3,\$lemask

le?vperm \$IN0,\$IN0,\$IN0,\$lemask

vpmsumd \$Xl,\$Xh,\$H4l # $H^{4.lo} \cdot X_{i}.lo$

vpmsumd \$Xm,\$Xh,\$H4 # $H^{4.hi} \cdot X_{i}.lo + H^{4.lo} \cdot X_{i}.hi$

vpmsumd \$Xh,\$Xh,\$H4h # $H^{4.hi} \cdot X_{i}.hi$

vpmsumd \$Xl1,\$IN1,\$H3l

vpmsumd \$Xm1,\$IN1,\$H3

vpmsumd \$Xh1,\$IN1,\$H3h

vxor \$Xl,\$Xl,\$Xl3

vxor \$Xm,\$Xm,\$Xm3

vxor \$Xh,\$Xh,\$Xh3

vperm \$t0,\$IN2,\$IN3,\$loperm

vperm \$t1,\$IN2,\$IN3,\$hiperm

```

vpmsumd $t2,$X1,$xC2 # 1st reduction phase
vpmsumd $X13,$t0,$H21l # H.lo·Xi+3.lo +H^2.lo·Xi+2.lo
vpmsumd $Xh3,$t1,$H21h # H.hi·Xi+3.hi +H^2.hi·Xi+2.hi

```

```

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $X1,$X1,$t0
vxor $Xh,$Xh,$t1

```

```

vsldoi $X1,$X1,$X1,8
vxor $X1,$X1,$t2

```

```

vsldoi $t1,$X1,$X1,8 # 2nd reduction phase
vpmsumd $Xm2,$IN2,$H2 # H^2.hi·Xi+2.lo+H^2.lo·Xi+2.hi
vpmsumd $Xm3,$IN3,$H # H.hi·Xi+3.lo +H.lo·Xi+3.hi
vpmsumd $X1,$X1,$xC2

```

```

vxor $X13,$X13,$X11
vxor $Xh3,$Xh3,$Xh1
vxor $Xh,$Xh,$IN0
vxor $Xm2,$Xm2,$Xm1
vxor $Xh,$Xh,$t1
vxor $Xm3,$Xm3,$Xm2
vxor $Xh,$Xh,$X1
bge Loop_4x

```

Ltail_4x:

```

vpmsumd $X1,$Xh,$H4l # H^4.lo·Xi.lo
vpmsumd $Xm,$Xh,$H4 # H^4.hi·Xi.lo+H^4.lo·Xi.hi
vpmsumd $Xh,$Xh,$H4h # H^4.hi·Xi.hi

```

```

vxor $X1,$X1,$X13
vxor $Xm,$Xm,$Xm3

```

```

vpmsumd $t2,$X1,$xC2 # 1st reduction phase

```

```

vsldoi $t0,$Xm,$zero,8
vsldoi $t1,$zero,$Xm,8
vxor $Xh,$Xh,$Xh3
vxor $X1,$X1,$t0
vxor $Xh,$Xh,$t1

```

```

vsldoi $X1,$X1,$X1,8
vxor $X1,$X1,$t2

```

```

vsldoi $t1,$X1,$X1,8 # 2nd reduction phase
vpmsumd $X1,$X1,$xC2

```

```

vxor $t1,$t1,$Xh
vxor $Xl,$Xl,$t1

addic. $len,$len,4
beq Ldone_4x

lvx_u $IN0,0,$inp
${UCMP}i $len,2
li $len,-4
blt Lone
lvx_u $IN1,r8,$inp
beq Ltwo

Lthree:
lvx_u $IN2,r9,$inp
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask
le?vperm $IN2,$IN2,$IN2,$lemask

vxor $Xh,$IN0,$Xl
vmr $H4l,$H3l
vmr $H4, $H3
vmr $H4h,$H3h

vperm $t0,$IN1,$IN2,$loperm
vperm $t1,$IN1,$IN2,$hiperm
vpmsumd $Xm2,$IN1,$H2 # H^2.lo·Xi+1.hi+H^2.hi·Xi+1.lo
vpmsumd $Xm3,$IN2,$H # H.hi·Xi+2.lo +H.lo·Xi+2.hi
vpmsumd $Xl3,$t0,$H2l1 # H^2.lo·Xi+1.lo+H.lo·Xi+2.lo
vpmsumd $Xh3,$t1,$H2lh # H^2.hi·Xi+1.hi+H.hi·Xi+2.hi

vxor $Xm3,$Xm3,$Xm2
b Ltail_4x

.align 4
Ltwo:
le?vperm $IN0,$IN0,$IN0,$lemask
le?vperm $IN1,$IN1,$IN1,$lemask

vxor $Xh,$IN0,$Xl
vperm $t0,$zero,$IN1,$loperm
vperm $t1,$zero,$IN1,$hiperm

vsldoi $H4l,$zero,$H2,8
vmr $H4, $H2
vsldoi $H4h,$H2,$zero,8

vpmsumd $Xl3,$t0, $H2l1 # H.lo·Xi+1.lo

```

```
vpmsumd $Xm3,$IN1,$H # H.hi·Xi+1.lo+H.lo·Xi+2.hi
vpmsumd $Xh3,$t1, $H21h # H.hi·Xi+1.hi
```

```
b Ltail_4x
```

```
.align 4
```

```
Lone:
```

```
le?vperm $IN0,$IN0,$IN0,$lemask
```

```
vsldoi $H4l,$zero,$H,8
```

```
vmr $H4, $H
```

```
vsldoi $H4h,$H,$zero,8
```

```
vxor $Xh,$IN0,$Xl
```

```
vxor $Xl3,$Xl3,$Xl3
```

```
vxor $Xm3,$Xm3,$Xm3
```

```
vxor $Xh3,$Xh3,$Xh3
```

```
b Ltail_4x
```

```
Ldone_4x:
```

```
le?vperm $Xl,$Xl,$Xl,$lemask
```

```
stvx_u $Xl,0,$Xip # write out Xi
```

```
li r10,`15+6*$SIZE_T`
```

```
li r11,`31+6*$SIZE_T`
```

```
mtspr 256,$vrsave
```

```
lvx v20,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v21,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v22,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v23,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v24,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v25,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v26,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v27,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v28,r10,$sp
```

```
addi r10,r10,32
```

```
lvx v29,r11,$sp
```

```
addi r11,r11,32
```

```
lvx v30,r10,$sp
```

```

lvx v31,r11,$sp
addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,0x04,0,0x80,0,4,0
.long 0
____
}
$code.=<<<____;
.size .gcm_ghash_p8,-.gcm_ghash_p8

.asciz "GHASH for PowerISA 2.07, CRYPTOGRAMS by <appro\@openssl.org>"
.align 2
____

```

```

foreach (split("\n",$code)) {
s^\([^"]*\)\`eval $1/geo;

if ($flavour =~ /le$/o) { # little-endian
s/le?//o or
s/be\?/#be#/o;
} else {
s/le\?/#le#/o or
s/be\?//o;
}
print $_, "\n";
}

```

close STDOUT; # enforce flush

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/modes/asm/ghashp8-ppc.pl
```

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/*

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*

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*/

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/ec/ecp_nistz256_table.c
```


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```
/* =====  
* Copyright (c) 2003 The OpenSSL Project. All rights reserved.  
*  
*  
* This command is intended as a test driver for the FIPS-140 testing  
* lab performing FIPS-140 validation. It demonstrates the use of the  
* OpenSSL library to perform a variety of common cryptographic  
* functions. A power-up self test is demonstrated by deliberately  
* pointing to an invalid executable hash  
*  
* Contributed by Steve Marquess.  
*  
*/
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-  
7.2a.202104051307/test/fips_test_suite.c  
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-  
7.2a.202104051307/fips/fips_test_suite.c
```

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```
/*-----  
* fips/kdf/fips_kdf_ssh.c - SSH KDF vector tests  
*  
* March 2015  
*  
* Copyright (c) 2015 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-  
7.2a.202104051307/fips/kdf/fips_kdf_ssh.c  
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-  
7.2a.202104051307/test/fips_kdf_ssh.c
```

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```
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* in the file LICENSE in the source distribution or at  
* https://www.openssl.org/source/license.html  
*/
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/evp/e_aes.c
```

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```
/*
```

```
* Copyright 2002-2016 The OpenSSL Project Authors. All Rights Reserved.
```

```
*
```

```
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```

```
* this file except in compliance with the License. You can obtain a copy
```

```
* in the file LICENSE in the source distribution or at
```

```
* https://www.openssl.org/source/license.html
```

```
*/
```

```
/* =====
```

```
* Copyright 2002 Sun Microsystems, Inc. ALL RIGHTS RESERVED.
```

```
* Portions originally developed by SUN MICROSYSTEMS, INC., and
```

```
* contributed to the OpenSSL project.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/ec/ec_key.c
```

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```
#!/usr/bin/env perl
```

```
# Copyright 1995-2016 The OpenSSL Project Authors. All Rights Reserved.
```

```
#
```

```
# Licensed under the OpenSSL license (the "License"). You may not use
```

```
# this file except in compliance with the License. You can obtain a copy
```

```
# in the file LICENSE in the source distribution or at
```

```
# https://www.openssl.org/source/license.html
```

```
# This is just a quick script to scan for cases where the 'error'
```

```
# function name in a XXXerr() macro is wrong.
```

```
#
```

```
# Run in the top level by going
```

```
# perl util/ck_errf.pl */*.c */*/*.c
```

```
#
```

```
my $err_strict = 0;
```

```
my $bad = 0;
```

```
foreach $file (@ARGV)
```

```
{
```

```
  if ($file eq "-strict")
```

```
  {
```

```
    $err_strict = 1;
```

```

next;
}
open(IN,"<$file") || die "unable to open $file\n";
$func="";
while (<IN>)
{
last if(/^#error\s+obsolete/);
if (!/;/ && /^\[a-zA-Z_]*[s*]?([A-Za-z_0-9]+)\.(D,|)$/)
{
/^[^()]*([()]*[()]*)*\(/;
$1 =~ /([A-Za-z_0-9]*)$/;
$func = $1;
$func =~ tr/A-Z/a-z/;
}
if (/([A-Z0-9]+)err\(([,]+) / && !/ckerr_ignore/)
{
$errlib=$1;
$n=$2;

if ($func eq "")
{ print "$file:.$:???:$n\n"; $bad = 1; next; }

if ($n !~ /^[^_]+_F_(.+)$/)
{
# print "check -$file:.$:$func:$n\n";
next;
}
$lib=$1;
$n=$2;

if ($lib ne $errlib)
{ print "$file:.$:$func:$n [${errlib}]err\n"; $bad = 1; next; }

$n =~ tr/A-Z/a-z/;
if (($n ne $func) && ($errlib ne "SYS"))
{ print "$file:.$:$func:$n\n"; $bad = 1; next; }
# print "$func:$1\n";
}
}
close(IN);
}

if ($bad && $err_strict)
{
print STDERR "FATAL: error discrepancy\n";
exit 1;
}

```

Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/util/ck_errf.pl

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Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/ec/asm/ecp_nistz256-x86_64.pl

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* /opt/cola/permits/1337210439_1687523530.3818/0/cissocsl-fom-7-2a-202104051307-tar-gz/cissocsl-fom-7.2a.202104051307/crypto/evp/e_aes_cbc_hmac_sha256.c

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* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/crypto/des/asm/dest4-sparcv9.pl

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```
/*-----  
* fips/embedsig.c - Utility to embed signatures into files on disk  
*  
* August, 2012  
*  
* Copyright (c) 2011,2012 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

* /opt/cola/permits/1337210439_1687523530.3818/0/ciscossl-fom-7-2a-202104051307-tar-gz/ciscossl-fom-7.2a.202104051307/fips/embedsig.c

1.322 hwmon-audiobridge 14

1.322.1 Available under license :

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```
/**  
*****  
* @file stm32f4xx_hal_conf_template.h  
* @author MCD Application Team  
* @brief HAL configuration template file.  
* This file should be copied to the application folder and renamed  
* to stm32f4xx_hal_conf.h.  
*****  
* @attention  
*  
* <h2><center>&copy; Copyright (c) 2017 STMicroelectronics.  
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*  
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* License. You may obtain a copy of the License at:  
* opensource.org/licenses/BSD-3-Clause  
*  
*****  
*/
```

Found in path(s):

* /opt/cola/permits/1702297785_1687537937.5486555/0/hwmon-audiobridge-14-tar-gz/audiobridge/stm32f4xx_hal_conf.h

1.323 webpack-dev-server 4.15.1

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1.324 html-webpack-plugin 5.5.3

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1.325 thousandeyes 1.157.0

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Npcap OEM

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Source: <https://github.com/nmap/npcap/blob/v1.10/docs/Npcap-Third-Party-Open-Source.pdf>

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Npcap OEM

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Source: <https://github.com/nmap/npcap/blob/v1.10/docs/Npcap-Third-Party-Open-Source.pdf>

Libpcap Portable Packet Capturing Library

****Description**:** Libpcap is a popular reference implementation of the pcap packet capturing API. It is produced by The Tcpdump Group and supports Linux and Mac OS X systems (among others). Npcap implements this API for Microsoft Windows by combining the high-level open source libpcap API code with our own custom Windows driver that implements the low-level network operations. Our wpcap.dll library file is mostly Libpcap code. We occasionally make our own fixes and changes to the libpcap code, but we have a great relationship with The Tcpdump Group and try to submit all of our changes to them for incorporation in future libpcap releases.

****Software URL**:** <<http://www.tcpdump.org/>>

****Version used**:** 1.9.1

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Winpcap Windows Packet Capturing Library

****Description****: Winpcap is an earlier (now abandoned) open source implementation of the pcap API for Windows. The last Winpcap release was made in March 2013. We created Npcap by starting with that abandoned code and updating it to support modern Windows NDIS API's and fixing well-known bugs and security issues. While Npcap has diverged substantially over the years, it still contains a substantial amount of original Winpcap code, so the Winpcap license must be followed. is used by Nmap on Windows for raw packet reading during host discovery, port scanning, and OS detection. It is a derivative of LibPcap, so that license (see Libpcap section) must be followed as well. It is only needed and used on Windows.

****Software URL****: <<https://www.winpcap.org/>>

****Version used****: 4.1.3

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The ieee80211_radiotap.h Header File

****Description****: This is just a short header file defining data structures for the IEEE 802.11 radio capture header

****Software URL****:

<<http://web.mit.edu/~mkgray/afs/bar/afs/sipb.mit.edu/project/freebsd/head/contrib/wpa/src/utils/radiotap.h>>

****Version used****: There is not a specific version number, but it says "Copyright (c) 2003, 2004 David Young"

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This is from a comment near the top of [the ieee80211_radiotap.h file itself](https://github.com/nmap/npcap/blob/master/packetWin7/npf/npf/ieee80211_radiotap.h):

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/intel/intel_bufmgr_priv.h

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/radeon/radeon_bo.c

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/radeon/radeon_bo_gem.c

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/tegra/openclose.c

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/kgsl/kgsl_pipe.c
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/msm/msm_device.c
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/kgsl/kgsl_bo.c
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/kgsl/kgsl_ringbuffer.c
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/msm/msm_priv.h
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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/msm/msm_pipe.c
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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/kgsl/kgsl_device.c

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-
2.4.109/omap/omap_drm.c
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-
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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/etnaviv/state.xml.h

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/vc4/vc4_gpu_defines.h

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/include/drm/virtgpu_drm.h

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2.4.109/intel/Android.mk

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-

2.4.109/Android.mk

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-

2.4.109/tests/util/Android.mk

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* DRM based vblank test program

* Copyright 2008 Tungsten Graphics

* Jakob Bornecrantz <jakob@tungstengraphics.com>

* Copyright 2008 Intel Corporation

* Jesse Barnes <jesse.barnes@intel.com>

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2.4.109/gen_table_fourcc.py

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* Authors:

* Christian Gmeiner <christian.gmeiner@gmail.com>

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/etnaviv/etnaviv_priv.h

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/etnaviv/etnaviv_2d_test.c

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/etnaviv/etnaviv_cmd_stream.c

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/etnaviv/etnaviv_drmif.h

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/exynos/exynos_fimg2d_perf.c

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/etnaviv/write_bmp.h

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* DRM based mode setting test program
* Copyright (C) 2014 Red Hat
* Author: Rob Clark <robdclark@gmail.com>

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/radeon/radeon_cs_gem.c

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* Authors:
* Paulo Zandoni <paulo.r.zandoni@intel.com>
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Contributing to libdrm

=====

Submitting Patches

Patches should be sent to dri-devel@lists.freedesktop.org, using git send-email. For patches only touching driver specific code one of the driver mailing lists (like amd-gfx@lists.freedesktop.org) is also appropriate. See git documentation for help:

<http://git-scm.com/documentation>

Since dri-devel is a very busy mailing list please use `--subject-prefix="PATCH libdrm"` to make it easier to find libdrm patches. This is best done by running

```
git config --local format.subjectprefix "PATCH libdrm"
```

The first line of a commit message should contain a prefix indicating what part is affected by the patch followed by one sentence that describes the change. For examples:

```
amdgpu: Use uint32_t i in amdgpu_find_bo_by_cpu_mapping
```

The body of the commit message should describe what the patch changes and why, and also note any particular side effects. For a recommended reading on writing commit messages, see:

<http://who-t.blogspot.de/2009/12/on-commit-messages.html>

Your patches should also include a Signed-off-by line with your name and email address. If you're not the patch's original author, you should also gather S-o-b's by them (and/or whomever gave the patch to you.) The significance of this is that it certifies that you created the patch, that it was created under an appropriate open source license, or provided to you under those terms. This lets us indicate a chain of responsibility for the copyright status of the code. For more details:

<https://developercertificate.org/>

We won't reject patches that lack S-o-b, but it is strongly recommended.

Review and Merging

Patches should have at least one positive review (Reviewed-by: tag) or indication of approval (Acked-by: tag) before merging. For any code shared between drivers this is mandatory.

Please note that kernel/userspace API header files have special rules, see [include/drm/README](#).

Coding style in the project loosely follows the CodingStyle of the linux kernel:

<https://www.kernel.org/doc/html/latest/process/coding-style.html?highlight=coding%20style>

Commit Rights

Commit rights will be granted to anyone who requests them and fulfills the below criteria:

- Submitted a few (5-10 as a rule of thumb) non-trivial (not just simple spelling fixes and whitespace adjustment) patches that have been merged already. Since libdrm is just a glue library between the kernel and userspace drivers, merged patches to those components also count towards the commit criteria.
- Are actively participating on discussions about their work (on the mailing list or IRC). This should not be interpreted as a requirement to review other peoples patches but just make sure that patch submission isn't one-way communication. Cross-review is still highly encouraged.
- Will be regularly contributing further patches. This includes regular contributors to other parts of the open source graphics stack who only do the oddball rare patch within libdrm itself.
- Agrees to use their commit rights in accordance with the documented merge criteria, tools, and processes.

To apply for commit rights ("Developer" role in gitlab) send a mail to dri-devel@lists.freedesktop.org and please ping the maintainers if your request is stuck.

Committers are encouraged to request their commit rights get removed when they no longer contribute to the project. Commit rights will be reinstated when they come back to the project.

Maintainers and committers should encourage contributors to request commit rights, as especially junior contributors tend to underestimate their skills.

Code of Conduct

Please be aware the fd.o Code of Conduct also applies to libdrm:

<https://www.freedesktop.org/wiki/CodeOfConduct/>

See the gitlab project owners for contact details of the libdrm maintainers.

Abuse of commit rights, like engaging in commit fights or willfully pushing patches that violate the documented merge criteria, will also be handled through the Code of Conduct enforcement process.

Happy hacking!

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 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/libkms/vmwgfx.c
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/libkms/internal.h
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/libkms/intel.c
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/libkms/api.c
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/libkms/nouveau.c
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/kmstest/main.c
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/libkms/dumb.c
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/libkms/libkms.h
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/libkms/linux.c

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The release criteria for libdrm is essentially "if you need a release, make one". There is no designated release engineer or maintainer. Anybody is free to make a release if there's a certain feature or bug fix they need in a released version of libdrm.

When new ioctl definitions are merged into drm-next, we will add support to libdrm, at which point we typically create a new release. However, this is up to whoever is driving the feature in question.

Follow these steps to release a new version of libdrm:

- 1) Bump the version number in meson.build. We seem to have settled for 2.4.x as the versioning scheme for libdrm, so just bump the micro version.
- 2) Run `ninja -C builddir/ dist` to generate the tarballs. Make sure that the version number of the tarball name in builddir/meson-dist/ matches the number you bumped to. Move that tarball to the libdrm repo root for the release script to pick up.
- 3) Push the updated master branch with the bumped version number:

```
git push origin master
```

assuming the remote for the upstream libdrm repo is called origin.

- 4) Use the release.sh script from the xorg/util/modular repo to upload the tarballs to the freedesktop.org download area and create an announce email template. The script takes one argument: the path to the libdrm checkout. So, if a checkout of modular is at the same level than the libdrm repo:

```
./modular/release.sh libdrm
```

This copies the two tarballs to freedesktop.org and creates libdrm-2.4.16.announce which has a detailed summary of the changes, links to the tarballs, MD5 and SHA1 sums and pre-filled out email headers. Fill out the blank between the email headers and the list of changes with a brief message of what changed or what prompted this release. Send out the email and you're done!

Found in path(s):

```
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/RELEASING
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* Authors:

* Christian Gmeiner <christian.gmeiner@gmail.com>

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/etnaviv/etnaviv_cmd_stream_test.c

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/* amdgpu_drm.h -- Public header for the amdgpu driver *- linux-c *-

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* Authors:

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* Keith Whitwell <keith@tungstengraphics.com>

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/include/drm/amdgpu_drm.h

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/nouveau/pushbuf.c

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/nouveau/bufctx.c

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/nouveau/abi16.c

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/amdgpu/amdgpu_internal.h

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/amdgpu/amdgpu_bo.c

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/* mga_drm.h -- Public header for the Matrox g200/g400 driver -*- linux-c -*-

* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com

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* Keith Whitwell <keith@tungstengraphics.com>

*

* Rewritten by:

* Gareth Hughes <gareth@valinux.com>

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/amdgpu/amdgpu.h

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/amdgpu/amdgpu_vamgr.c

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* and different devices or use-cases may support different combinations.
*
* Further information on the use of AFBC modifiers can be found in
* Documentation/gpu/afbc.rst
*/
/*
* Arm Fixed-Rate Compression (AFRC) modifiers
*
* AFRC is a proprietary fixed rate image compression protocol and format,
* designed to provide guaranteed bandwidth and memory footprint
* reductions in graphics and media use-cases.
*
* AFRC buffers consist of one or more planes, with the same components
* and meaning as an uncompressed buffer using the same pixel format.
*
* Within each plane, the pixel/luma/chroma values are grouped into
* "coding unit" blocks which are individually compressed to a
* fixed size (in bytes). All coding units within a given plane of a buffer
* store the same number of values, and have the same compressed size.

*
 * The coding unit size is configurable, allowing different rates of compression.
 *
 * The start of each AFRC buffer plane must be aligned to an alignment granule which
 * depends on the coding unit size.
 *
 * Coding Unit Size Plane Alignment
 * -----
 * 16 bytes 1024 bytes
 * 24 bytes 512 bytes
 * 32 bytes 2048 bytes
 *
 * Coding units are grouped into paging tiles. AFRC buffer dimensions must be aligned
 * to a multiple of the paging tile dimensions.
 * The dimensions of each paging tile depend on whether the buffer is optimised for
 * scanline (SCAN layout) or rotated (ROT layout) access.
 *
 * Layout Paging Tile Width Paging Tile Height
 * -----
 * SCAN 16 coding units 4 coding units
 * ROT 8 coding units 8 coding units
 *
 * The dimensions of each coding unit depend on the number of components
 * in the compressed plane and whether the buffer is optimised for
 * scanline (SCAN layout) or rotated (ROT layout) access.
 *
 * Number of Components in Plane Layout Coding Unit Width Coding Unit Height
 * -----
 * 1 SCAN 16 samples 4 samples
 * Example: 16x4 luma samples in a 'Y' plane
 * 16x4 chroma 'V' values, in the 'V' plane of a fully-planar YUV buffer
 * -----
 * 1 ROT 8 samples 8 samples
 * Example: 8x8 luma samples in a 'Y' plane
 * 8x8 chroma 'V' values, in the 'V' plane of a fully-planar YUV buffer
 * -----
 * 2 DONT CARE 8 samples 4 samples
 * Example: 8x4 chroma pairs in the 'UV' plane of a semi-planar YUV buffer
 * -----
 * 3 DONT CARE 4 samples 4 samples
 * Example: 4x4 pixels in an RGB buffer without alpha
 * -----
 * 4 DONT CARE 4 samples 4 samples
 * Example: 4x4 pixels in an RGB buffer with alpha
 */
 /*
 * Amlogic Video Framebuffer Compression modifiers
 *

- * Amlogic uses a proprietary lossless image compression protocol and format
- * for their hardware video codec accelerators, either video decoders or
- * video input encoders.
- *
- * It considerably reduces memory bandwidth while writing and reading
- * frames in memory.
- *
- * The underlying storage is considered to be 3 components, 8bit or 10-bit
- * per component YCbCr 420, single plane :
- * - DRM_FORMAT_YUV420_8BIT
- * - DRM_FORMAT_YUV420_10BIT
- *
- * The first 8 bits of the mode defines the layout, then the following 8 bits
- * defines the options changing the layout.
- *
- * Not all combinations are valid, and different SoCs may support different
- * combinations of layout and options.
- */
- /*
- * 64K_S is the same for GFX9/GFX10/GFX10_RBPLUS and hence has GFX9 as canonical
- * version.
- */

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- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/include/drm/drm_fourcc.h

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/exynos/exynos_drm.c

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* Authors:

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* Kevin E. Martin <martin@valinux.com>

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```

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-
2.4.109/libsync.h

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/*

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/etnaviv/etnaviv_bo_cache_test.c

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/xf86drmMode.c

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/xf86drmHash.h

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 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/util/common.h
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/util/format.h
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/util/format.c
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/util/kms.h
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/util/pattern.h
 * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/util/kms.c

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/* savage_drm.h -- Public header for the savage driver

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/tmtest/src/xf86dri.c

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/tmtest/src/xf86distr.h

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* GLX Hardware Device Driver common code

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tegra/private.h

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tegra/tegra.h

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/exynos/exynos_fimg2d.c

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/exynos/fimg2d_reg.h

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/util_math.h

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/amdgpu/cs_tests.c

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* DRM based mode setting test program

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/util/meson.build
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/meson.build
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/tegra/meson.build
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/vc4/meson.build
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/data/meson.build
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/exynos/meson.build
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/meson.build
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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/xf86drm.h

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- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/kms/libkms-test-crtc.c
- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/kms/kms-steal-crtc.c
- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/kms/libkms-test-screen.c
- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/kms/kms-universal-planes.c
- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/kms/libkms-test-device.c
- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/kms/libkms-test-plane.c
- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/kms/libkms-test-framebuffer.c
- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/kms/libkms-test.h

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/* xf86drmHash.c -- Small hash table support for integer -> integer mapping

* Created: Sun Apr 18 09:35:45 1999 by faith@precisioninsight.com

*

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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution. There are two potentially interesting things
* about this implementation:
*
* 1) The table is power-of-two sized. Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.
*
* 2) The hash computation uses a table of random integers [Hanson97,
* pp. 39-41].
*
* FUTURE ENHANCEMENTS
*
* With a table size of 512, the current implementation is sufficient for a
* few hundred keys. Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises. A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table. The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.
*
* REFERENCES
*

- * [Hanson97] David R. Hanson. C Interfaces and Implementations: Techniques for Creating Reusable Software. Reading, Massachusetts: Addison-Wesley, 1997.
- *
- * [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3: Sorting and Searching. Reading, Massachusetts: Addison-Wesley, 1973.
- *
- * [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April 1988, pp. 446-457.
- *
- */

Found in path(s):

- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/hash.c
- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/xf86drmHash.c

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- * /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/include/drm/msm_drm.h

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```
/* drmsl.c -- Skip list test
* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
* FUTURE ENHANCEMENTS
*
* REFERENCES
*
* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/
```

Found in path(s):

```
*/opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/tests/drmsl.c
```

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```
/******
```

```
*/
```

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/radeon/radeon_surface.h

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/radeon/radeon_surface.c

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git clone git://0x04.net/rules-ng-ng

The rules-ng-ng source files this header was generated from are:

- cmdstream.xml (12621 bytes, from 2016-09-06 14:44:16)
- copyright.xml (1597 bytes, from 2016-09-06 14:44:16)
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*  
* Authors:  
* Ben Widawsky <ben@bwidawsk.net>  
*  
*/
```

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```
* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-  
2.4.109/intel/intel_debug.h
```

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```
/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation  
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*  
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>  
*  
* DESCRIPTION
```

*

* This file contains a simple, straightforward implementation of the Park
* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
* multiplicative linear congruential generator (MLCG) with a period of
* $2^{31}-1$.

*

* This implementation is intended to provide a reliable, portable PRNG
* that is suitable for testing a hash table implementation and for
* implementing skip lists.

*

* FUTURE ENHANCEMENTS

*

* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated. [Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.

*

* If PRNGs are used for simulation, the period of the current
* implementation may be too short. [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M. [LE90 and Sch92] also provide information on
* long-period PRNGs.

*

* REFERENCES

*

* [Knuth81] Donald E. Knuth. The Art of Computer Programming. Volume 2:
* Seminumerical Algorithms. Reading, Massachusetts: Addison-Wesley, 1981.

*

* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
* Generators". CACM 31(6), June 1988, pp. 742-774.

*

* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10),
* October 1990, pp. 85-97.

*

* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
* Good Ones are Hard to Find". CACM 31(10), October 1988, pp. 1192-1201.

*

* [Sch92] Bruce Schneier. "Pseudo-Ransom Sequence Generator for 32-Bit
* CPUs". Dr. Dobbs's Journal 17(2), February 1992, pp. 34, 37-38, 40.

*

* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer. In
* "Technical Correspondence: Remarks on Choosing and Implementing Random
* Number Generators". CACM 36(7), July 1993, pp. 105-110.

*

*/

Found in path(s):

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-
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2.4.109/include/drm/drm_sarea.h

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/* radeon_drm.h -- Public header for the radeon driver -*- linux-c -*-

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*
* Authors:
* Kevin E. Martin <martin@valinux.com>
* Gareth Hughes <gareth@valinux.com>
* Keith Whitwell <keith@tungstengraphics.com>

*/

Found in path(s):

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/include/drm/radeon_drm.h

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/* exynos.c

*
* Copyright 2009 Samsung Electronics Co., Ltd.

* Authors:
* SooChan Lim <sc1.lim@samsung.com>
* Sangjin LEE <lsj119@samsung.com>

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/freedreno_bo.c

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/freedreno_drmif.h

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/freedreno_pipe.c

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/freedreno_ringbuffer.c

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/freedreno_ringbuffer.h

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/freedreno/freedreno_device.c

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/* xf86drmSL.c -- Skip list support

* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com

*

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*

* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

*

* DESCRIPTION

*

* This file contains a straightforward skip list implementation.n

*

* FUTURE ENHANCEMENTS

*

* REFERENCES

*

* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.

*

*/

Found in path(s):

* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-
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/* exynos_drm.h

*

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* Authors:

* Inki Dae <inki.dae@samsung.com>
* Joonyoung Shim <jy0922.shim@samsung.com>
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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/exynos/exynos_drm.h

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* /opt/cola/permits/1725715225_1687421426.7863286/0/mesa-drm-libdrm-2-4-109-tar-gz/mesa-drm-libdrm-2.4.109/etnaviv/etnaviv_bo.c

1.327 wayland 0.95.0

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
```

```

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/

```

```

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1.329 react-bootstrap 2.8.0

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* VI syntax highlighting tweaks.

* Fix compiler to not make output executable.

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

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

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* Tru64 support.

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* Solaris 10 + Sun Studio fixes.

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

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* MS Visual Studio error format option.

* Detect unordered_map in stl_hash.m4.

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* gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

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- * Fixed initialization ordering problem in logging code.

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- * Small patch improving performance of in Python serialization.

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

Scott Stafford <scott.stafford@gmail.com>

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

Alexander Melnikov <alm@sibmail.ru>

- * HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

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

Evan Jones <evanj@mit.edu>

- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

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- * Added CodedInputStream.getTotalBytesRead().

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- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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

Andrew Paprocki <andrew@ishiboo.com>

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

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1.332 ts-loader 9.4.4

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1.333 react-select 5.7.4

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1.334 monaco-editor-webpack-plugin 7.1.0

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1.335 dompurify 3.0.5

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1.336 babel-loader 9.1.3

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1.337 webpack 5.88.2

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1.339 core-js 3.32.0

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1.340 fp-ts 2.16.1

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1.342 backbone 1.5.0

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1.344 bootstrap 5.3.1

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@babel/parser@v7.22.7

> A JavaScript parser

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Homepage: <<https://babel.dev/docs/en/next/babel-parser>>

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@glimmer/syntax@v0.84.3

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@glimmer/util@v0.84.3

> Common utilities used in Glimmer

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@handlebars/parser@v2.0.0

> The parser for the Handlebars language

License: ISC

Homepage: <<https://github.com/handlebars-lang/handlebars-parser#readme>>

Repository: <git+https://github.com/handlebars-lang/handlebars-parser.git>

@iarna/toml@v2.2.5

> Better TOML parsing and stringifying all in that familiar JSON interface.

License: ISC

Homepage: <https://github.com/iarna/iarna-toml#readme>

Repository: <git+https://github.com/iarna/iarna-toml.git>

Author: Rebecca Turner <me@re-becca.org> (<http://re-becca.org/>)

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@nodelib/fs.scandir@v2.1.5

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@nodelib/fs.stat@v2.0.5

> Get the status of a file with some features

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@nodelib/fs.walk@v1.2.8

> A library for efficiently walking a directory recursively

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@prettier/is-es5-identifier-name@v0.2.0

> Check if provided string is an `IdentifierName` as specified in ECMA262 edition 5.1 section 7.6.

License: MIT

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@prettier/parse-srcset@v3.0.0

> A spec-conformant JavaScript parser for the HTML5 srcset attribute

License: MIT

Homepage: <<https://github.com/prettier/parse-srcset#readme>>

Author: Alex Bell <alex@bellandwhistle.net>

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@typescript-eslint/types@v6.2.0

> Types for the TypeScript-ESTree AST spec

License: MIT

Repository: <<https://github.com/typescript-eslint/typescript-eslint.git>>

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@typescript-eslint/typescript-estree@v6.2.0

- > A parser that converts TypeScript source code into an ESTree compatible form

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Repository: <<https://github.com/typescript-eslint/typescript-eslint>.git>

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acorn@v8.10.0

> ECMAScript parser

License: MIT

Homepage: <<https://github.com/acornjs/acorn>>

Repository: <<https://github.com/acornjs/acorn.git>>

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acorn-jsx@v5.3.2

> Modern, fast React.js JSX parser

License: MIT

Homepage: <<https://github.com/acornjs/acorn-jsx>>

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angular-estree-parser@v7.0.0

> A parser that converts Angular source code into an ESTree-compatible form

License: MIT

Homepage: <<https://github.com/prettier/angular-estree-parser#readme>>

Author: Ika <ikatyang@gmail.com> (<https://github.com/ikatyang>)

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angular-html-parser@v4.0.1

> A HTML parser extracted from Angular with some modifications

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Homepage: <<https://github.com/prettier/angular-html-parser/blob/master/packages/angular-html-parser#readme>>

Author: Ika <ikatyang@gmail.com> (<https://github.com/ikatyang>)

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ansi-regex@v6.0.1

> Regular expression for matching ANSI escape codes

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ansi-styles@v3.2.1

> ANSI escape codes for styling strings in the terminal

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bail@v1.0.5

> Throw a given error

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balanced-match@v1.0.2

> Match balanced character pairs, like "{" and "}"

License: MIT

Homepage: <<https://github.com/juliangruber/balanced-match>>

Repository: <[git://github.com/juliangruber/balanced-match.git](https://github.com/juliangruber/balanced-match.git)>

Author: Julian Gruber <mail@juliangruber.com> (<http://juliangruber.com>)

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brace-expansion@v1.1.11

> Brace expansion as known from sh/bash

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Homepage: <<https://github.com/juliangruber/brace-expansion>>

Repository: <[git://github.com/juliangruber/brace-expansion.git](https://github.com/juliangruber/brace-expansion.git)>

Author: Julian Gruber <mail@juliangruber.com> (<http://juliangruber.com>)

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braces@v3.0.2

> Bash-like brace expansion, implemented in JavaScript. Safer than other brace expansion libs, with complete support for the Bash 4.3 braces specification, without sacrificing speed.

License: MIT

Homepage: <<https://github.com/micromatch/braces>>

Author: Jon Schlinkert (<https://github.com/jonschlinkert>)

Contributors:

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camelcase@v7.0.1

> Convert a dash/dot/underscore/space separated string to camelCase or PascalCase: `foo-bar` `fooBar`

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ccount@v1.1.0

> Count characters

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chalk@v2.4.2

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chalk@v5.3.0

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character-entities@v1.2.4

> HTML character entity information

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character-entities-legacy@v1.1.4

> HTML legacy character entity information

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character-reference-invalid@v1.1.4

> HTML invalid numeric character reference information

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ci-info@v3.8.0

> Get details about the current Continuous Integration environment

License: MIT

Homepage: <<https://github.com/watson/ci-info>>

Author: Thomas Watson Steen <w@tson.dk> (<https://twitter.com/wa7son>)

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clone@v1.0.4

> deep cloning of objects and arrays

License: MIT

Repository: <git://github.com/pvorb/node-clone.git>

Author: Paul Vorbach <paul@vorba.ch> (<http://paul.vorba.ch/>)

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collapse-white-space@v1.0.6

> Replace multiple white-space characters with a single space

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Author: Titus Wormer <tituswormer@gmail.com> (<https://wooorm.com>)

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color-convert@v1.9.3

> Plain color conversion functions

License: MIT

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color-name@v1.1.3

- > A list of color names and its values

License: MIT

Homepage: <<https://github.com/dfcreative/color-name>>

Repository: <[git@github.com:dfcreative/color-name.git](https://github.com/dfcreative/color-name.git)>

Author: DY <dfcreative@gmail.com>

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common-path-prefix@v3.0.0

> Computes the longest prefix string that is common to each path, excluding the base component

License: ISC

Homepage: <<https://github.com/novemberborn/common-path-prefix#readme>>

Repository: <[git+https://github.com/novemberborn/common-path-prefix.git](https://github.com/novemberborn/common-path-prefix.git)>

Author: Mark Wubben (<https://novemberborn.net/>)

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concat-map@v0.0.1

> concatenative mapdashery

License: MIT

Repository: <[git://github.com/substack/node-concat-map.git](https://github.com/substack/node-concat-map.git)>

Author: James Halliday <mail@substack.net> (<http://substack.net>)

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cosmiconfig@v8.2.0

> Find and load configuration from a package.json property, rc file, or CommonJS module

License: MIT

Homepage: <<https://github.com/cosmiconfig/cosmiconfig#readme>>

Repository: <[git+https://github.com/cosmiconfig/cosmiconfig.git](https://github.com/cosmiconfig/cosmiconfig.git)>

Author: Daniel Fischer <daniel@d-fischer.dev>

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dashify@v2.0.0

> Convert a camelcase or space-separated string to a dash-separated string. ~12 sloc, fast, supports diacritics.

License: MIT

Homepage: <<https://github.com/jonschlinkert/dashify>>

Author: Jon Schlinkert (<https://github.com/jonschlinkert>)

Contributors:

- Jeffrey Priebe (<https://github.com/jeffreypriebe>)

- Jon Schlinkert (<http://twitter.com/jonschlinkert>)

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defaults@v1.0.4

> merge single level defaults over a config object

License: MIT

Repository: <[git://github.com/sindresorhus/node-defaults.git](https://github.com/sindresorhus/node-defaults.git)>

Author: Elijah Insua <tmpvar@gmail.com>

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diff@v5.1.0

- > A javascript text diff implementation.

License: BSD-3-Clause

Repository: <git://github.com/kpdecker/jsdiff.git>

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eastasianwidth@v0.2.0

> Get East Asian Width from a character.

License: MIT

Author: Masaki Komagata

editorconfig@v0.15.3

> EditorConfig File Locator and Interpreter for Node.js

License: MIT

Repository: <[git://github.com/editorconfig/editorconfig-core-js](https://github.com/editorconfig/editorconfig-core-js)>

Author: EditorConfig Team

Contributors:

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- Jed Mao (<https://github.com/jedmao/>)

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editorconfig-to-prettier@v1.0.0

> Converts an `editorconfig`-parsed object to a `prettier` configuration

License: ISC

Homepage: <<https://github.com/josephfrazier/editorconfig-to-prettier#readme>>

Repository: <[git+https://github.com/josephfrazier/editorconfig-to-prettier.git](https://github.com/josephfrazier/editorconfig-to-prettier.git)>

Author: Joseph Frazier <1212jtraceur@gmail.com>

emoji-regex@v10.2.1

> A regular expression to match all Emoji-only symbols as per the Unicode Standard.

License: MIT

Homepage: <<https://mths.be/emoji-regex>>

Repository: <<https://github.com/mathiasbynens/emoji-regex.git>>

Author: Mathias Bynens (<https://mathiasbynens.be/>)

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error-ex@v1.3.2

- > Easy error subclassing and stack customization

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escape-string-regexp@v1.0.5

- > Escape RegExp special characters

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escape-string-regexp@v5.0.0

> Escape RegExp special characters

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espre@v9.6.1

> An Esprima-compatible JavaScript parser built on Acorn

License: BSD-2-Clause

Homepage: <<https://github.com/eslint/espre>>

Author: Nicholas C. Zakas <nicholas+npm@nczconsulting.com>

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extend@v3.0.2

> Port of jQuery.extend for node.js and the browser

License: MIT

Repository: <<https://github.com/justmoon/node-extend.git>>

Author: Stefan Thomas <justmoon@members.fsf.org> (<http://www.justmoon.net>)

Contributors:

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fast-glob@v3.2.12

> It's a very fast and efficient glob library for Node.js

License: MIT

Author: Denis Malinochkin (<https://mrmlnc.com>)

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fast-json-stable-stringify@v2.1.0

> deterministic `JSON.stringify()` - a faster version of substack's json-stable-stringify without jsonify

License: MIT

Homepage: <<https://github.com/epoberezkin/fast-json-stable-stringify>>

Repository: <[git://github.com/epoberezkin/fast-json-stable-stringify.git](https://github.com/epoberezkin/fast-json-stable-stringify.git)>

Author: James Halliday <mail@substack.net> (<http://substack.net>)

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fastq@v1.15.0

> Fast, in memory work queue

License: ISC

Homepage: <<https://github.com/mcollina/fastq#readme>>

Repository: <[git+https://github.com/mcollina/fastq.git](https://github.com/mcollina/fastq.git)>

Author: Matteo Collina <hello@matteocollina.com>

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file-entry-cache@v6.0.1

> Super simple cache for file metadata, useful for process that work o a given series of files and that only need to repeat the job on the changed ones since the previous run of the process

License: MIT

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fill-range@v7.0.1

> Fill in a range of numbers or letters, optionally passing an increment or `step` to use, or create a regex-compatible range with `options.toRegex`

License: MIT

Homepage: <<https://github.com/jonschlinkert/fill-range>>

Author: Jon Schlinkert (<https://github.com/jonschlinkert>)

Contributors:

- Edo Rivai (edo.rivai.nl)
- Jon Schlinkert (<http://twitter.com/jonschlinkert>)
- Paul Miller (paulmillr.com)
- Rouven Weling (www.rouvenwessling.de)
- null (<https://github.com/wtgybhertgeghgtwtg>)

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find-cache-dir@v4.0.0

> Finds the common standard cache directory

License: MIT

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find-parent-dir@v0.3.1

> Finds the first parent directory that contains a given file or directory.

License: MIT

Homepage: <<https://github.com/thlorenz/find-parent-dir>>

Repository: <[git://github.com/thlorenz/find-parent-dir.git](https://github.com/thlorenz/find-parent-dir.git)>

Author: Thorsten Lorenz <thlorenz@gmx.de> (<http://thlorenz.com>)

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find-up@v6.3.0

> Find a file or directory by walking up parent directories

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flat-cache@v3.0.4

> A stupidly simple key/value storage using files to persist some data

License: MIT

Author: Roy Riojas (<http://royriojas.com>)

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flatted@v3.2.7

> A super light and fast circular JSON parser.

License: ISC

Homepage: <<https://github.com/WebReflection/flatted#readme>>

Repository: <git+<https://github.com/WebReflection/flatted.git>>

Author: Andrea Giammarchi

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flatten@v1.0.3

> Flatten arbitrarily nested arrays into a non-nested list of non-array items. Maintained for legacy compatibility.

License: MIT

Homepage: <<https://github.com/mk-pmb/flatten-js/#readme>>

Repository: <[git+https://github.com/mk-pmb/flatten-js.git](https://github.com/mk-pmb/flatten-js.git)>

Author: Joshua Holbrook <josh.holbrook@gmail.com> (<http://jesusabdullah.net>)

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flow-parser@v0.213.1

> JavaScript parser written in OCaml. Produces ESTree AST

License: MIT

Homepage: <<https://flow.org>>

Repository: <<https://github.com/facebook/flow.git>>

Author: Flow Team <flow@fb.com>

fs.realpath@v1.0.0

> Use node's fs.realpath, but fall back to the JS implementation if the native one fails

License: ISC

Repository: <git+https://github.com/isaacs/fs.realpath.git>

Author: Isaac Z. Schlueter <i@izs.me> (<http://blog.izs.me/>)

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> This library bundles a version of the `fs.realpath` and `fs.realpathSync`

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get-stdin@v9.0.0

> Get stdin as a string or buffer

License: MIT

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glob@v7.2.3

> a little globber

License: ISC

Repository: <[git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)>

Author: Isaac Z. Schlueter <i@izs.me> (<http://blog.izs.me/>)

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glob-parent@v5.1.2

> Extract the non-magic parent path from a glob string.

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Author: Gulp Team <team@gulpjs.com> (<https://gulpjs.com/>)

Contributors:

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graphql@v16.7.1

> A Query Language and Runtime which can target any service.

License: MIT

Homepage: <<https://github.com/graphql/graphql-js>>

Repository: <<https://github.com/graphql/graphql-js.git>>

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has-flag@v3.0.0

> Check if argv has a specific flag

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ignore@v5.2.4

> Ignore is a manager and filter for .gitignore rules, the one used by eslint, gitbook and many others.

License: MIT

Repository: <git@github.com:kaelzhang/node-ignore.git>

Author: kael

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> <http://kael.me/>

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import-fresh@v3.3.0

> Import a module while bypassing the cache

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import-meta-resolve@v3.0.0

> Resolve things like Node.js ponyfill for `import.meta.resolve`

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Author: Titus Wormer <tituswormer@gmail.com> (<https://wooorm.com>)

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indexes-of@v1.0.1

> line String/Array#indexOf but return all the indexes in an array

License: MIT

Homepage: <<https://github.com/dominictarr/indexes-of>>

Repository: <[git://github.com/dominictarr/indexes-of.git](https://github.com/dominictarr/indexes-of.git)>

Author: Dominic Tarr <dominic.tarr@gmail.com> (dominictarr.com)

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inflight@v1.0.6

> Add callbacks to requests in flight to avoid async duplication

License: ISC

Homepage: <<https://github.com/isaacs/inflight>>

Repository: <<https://github.com/npm/inflight.git>>
Author: Isaac Z. Schlueter <i@izs.me> (<http://blog.izs.me/>)

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inherits@v2.0.4

> Browser-friendly inheritance fully compatible with standard node.js inherits()

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is-alphabetical@v1.0.4

> Check if a character is alphabetical

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is-alphanumeric@v1.0.4

> Check if a character is alphanumeric

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is-arrayish@v0.2.1

- > Determines if an object can be used as an array

License: MIT

Repository: <<https://github.com/qix-/node-is-arrayish.git>>

Author: Qix (<http://github.com/qix->)

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is-buffer@v2.0.5

> Determine if an object is a Buffer

License: MIT

Repository: <git://github.com/feross/is-buffer.git>

Author: Feross Aboukhadijeh <feross@feross.org> (<https://feross.org>)

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is-decimal@v1.0.4

> Check if a character is decimal

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is-extglob@v2.1.1

> Returns true if a string has an extglob.

License: MIT

Homepage: <<https://github.com/jonschlinkert/is-extglob>>

Author: Jon Schlinkert (<https://github.com/jonschlinkert>)

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is-glob@v4.0.3

> Returns `true` if the given string looks like a glob pattern or an extglob pattern. This makes it easy to create code that only uses external modules like node-glob when necessary, resulting in much faster code execution and initialization time, and a better user experience.

License: MIT

Homepage: <<https://github.com/micromatch/is-glob>>

Author: Jon Schlinkert (<https://github.com/jonschlinkert>)

Contributors:

- Brian Woodward (<https://twitter.com/doowb>)
- Daniel Perez (<https://tuvistavie.com>)
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is-hexadecimal@v1.0.4

> Check if a character is hexadecimal

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is-number@v7.0.0

> Returns true if a number or string value is a finite number. Useful for regex matches, parsing, user input, etc.

License: MIT

Homepage: <<https://github.com/jonschlinkert/is-number>>

Author: Jon Schlinkert (<https://github.com/jonschlinkert>)

Contributors:

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is-plain-obj@v2.1.0

> Check if a value is a plain object

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is-whitespace-character@v1.0.4

> Check if a character is a whitespace character

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is-word-character@v1.0.4

> Check if a character is a word character

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jest-docblock@v29.4.3

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js-tokens@v4.0.0

- > A regex that tokenizes JavaScript.

License: MIT

Author: Simon Lydell

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js-yaml@v4.1.0

> YAML 1.2 parser and serializer

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Author: Vladimir Zapparov <dervus.grim@gmail.com>

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json-parse-even-better-errors@v2.3.1

- > JSON.parse with context information on error

License: MIT

Author: Kat Marchn <kzm@zkat.tech>

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json5@v2.2.3

> JSON for Humans

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Homepage: <<http://json5.org/>>

Repository: <[git+https://github.com/json5/json5.git](https://github.com/json5/json5.git)>

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>

> [others]: <https://github.com/json5/json5/contributors>

leven@v4.0.0

> Measure the difference between two strings using the Levenshtein distance algorithm

License: MIT

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lines-and-columns@v1.2.4

> Maps lines and columns to character offsets and back.

License: MIT

Homepage: <<https://github.com/eventualbuddha/lines-and-columns#readme>>

Repository: <<https://github.com/eventualbuddha/lines-and-columns.git>>

Author: Brian Donovan <brian@donovans.cc>

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lines-and-columns@v2.0.3

> Maps lines and columns to character offsets and back.

License: MIT

Homepage: <<https://github.com/eventualbuddha/lines-and-columns#readme>>

Repository: <<https://github.com/eventualbuddha/lines-and-columns.git>>

Author: Brian Donovan <brian@donovans.cc>

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locate-path@v7.2.0

> Get the first path that exists on disk of multiple paths

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lru-cache@v4.1.5

> A cache object that deletes the least-recently-used items.

License: ISC

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map-age-cleaner@v0.1.3

> Automatically cleanup expired items in a Map

License: MIT

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markdown-escapes@v1.0.4

> List of escapable characters in markdown

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mem@v9.0.2

- > Memoize functions - An optimization used to speed up consecutive function calls by caching the result of calls with identical input

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merge2@v1.4.1

- > Merge multiple streams into one stream in sequence or parallel.

License: MIT

Homepage: <<https://github.com/teambition/merge2>>

Repository: <[git@github.com:teambition/merge2.git](https://github.com/teambition/merge2)>

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meriyah@v4.3.7

> A 100% compliant, self-hosted javascript parser with high focus on both performance and stability

License: ISC

Homepage: <<https://github.com/meriyah/meriyah>>

Repository: <<https://github.com/meriyah/meriyah>>

Author: Kenny F. (<https://github.com/KFlash>)

Contributors:

- Chunpeng Huo (<https://github.com/3cp>)

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micromatch@v4.0.5

> Glob matching for javascript/node.js. A replacement and faster alternative to minimatch and multimatch.

License: MIT

Homepage: <<https://github.com/micromatch/micromatch>>

Author: Jon Schlinkert (<https://github.com/jonschlinkert>)

Contributors:

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mimic-fn@v4.0.0

> Make a function mimic another one

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minimatch@v3.1.2

> a glob matcher in javascript

License: ISC

Repository: <[git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)>

Author: Isaac Z. Schlueter <i@izs.me> (<http://blog.izs.me>)

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minimist@v1.2.8

> parse argument options

License: MIT

Homepage: <<https://github.com/minimistjs/minimist>>

Repository: <<git://github.com/minimistjs/minimist.git>>

Author: James Halliday <mail@substack.net> (<http://substack.net>)

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n-readlines@v1.0.1

> Read file line by line without buffering the whole file in memory.

License: MIT

Repository: <<http://github.com/nacholibre/node-readlines.git>>

Author: Yoan Arnaudov <jonidev@gmail.com>

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nanoid@v3.3.6

> A tiny (116 bytes), secure URL-friendly unique string ID generator

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once@v1.4.0

> Run a function exactly one time

License: ISC

Repository: <git://github.com/isaacs/once>

Author: Isaac Z. Schlueter <i@izs.me> (<http://blog.izs.me/>)

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p-defer@v1.0.0

> Create a deferred promise

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p-limit@v4.0.0

- > Run multiple promise-returning & async functions with limited concurrency

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p-locate@v6.0.0

- > Get the first fulfilled promise that satisfies the provided testing function

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parse-entities@v2.0.0

> Parse HTML character references: fast, spec-compliant, positional information

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parse-json@v5.2.0

> Parse JSON with more helpful errors

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path-exists@v5.0.0

> Check if a path exists

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path-is-absolute@v1.0.1

> Node.js 0.12 path.isAbsolute() ponyfill

License: MIT

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path-type@v4.0.0

> Check if a path is a file, directory, or symlink

License: MIT

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picocolors@v1.0.0

> The tiniest and the fastest library for terminal output formatting with ANSI colors

License: ISC

Author: Alexey Raspopov

> ISC License

>

> Copyright (c) 2021 Alexey Raspopov, Kostiantyn Denysov, Anton Verinov

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picomatch@v2.3.1

> Blazing fast and accurate glob matcher written in JavaScript, with no dependencies and full support for standard and extended Bash glob features, including braces, extglobs, POSIX brackets, and regular expressions.

License: MIT

Homepage: <<https://github.com/micromatch/picomatch>>

Author: Jon Schlinkert (<https://github.com/jonschlinkert>)

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pkg-dir@v7.0.0

> Find the root directory of a Node.js project or npm package

License: MIT

Author: Sindre Sorhus <sindresorhus@gmail.com> (<https://sindresorhus.com>)

> MIT License

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please-upgrade-node@v3.2.0

> Displays a beginner-friendly message telling your user to upgrade their version of Node

License: MIT

Homepage: <<https://github.com/typicode/please-upgrade-node#readme>>

Repository: <[git+https://github.com/typicode/please-upgrade-node.git](https://github.com/typicode/please-upgrade-node.git)>

Author: typicode

> MIT License

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postcss@v8.4.27

> Tool for transforming styles with JS plugins

License: MIT

Homepage: <<https://postcss.org/>>

Author: Andrey Sitnik <andrey@sitnik.ru>

> The MIT License (MIT)

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postcss-less@v6.0.0

> LESS parser for PostCSS

License: MIT

Homepage: <<https://github.com/shellscape/postcss-less>>

Author: Denys Kniazevych <webschik@gmail.com>

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postcss-media-query-parser@v0.2.3

> A tool for parsing media query lists.

License: MIT

Homepage: <<https://github.com/dryoma/postcss-media-query-parser>>

Repository: <[git+https://github.com/dryoma/postcss-media-query-parser.git](https://github.com/dryoma/postcss-media-query-parser.git)>

Author: dryoma

postcss-scss@v4.0.6

> SCSS parser for PostCSS

License: MIT

Author: Andrey Sitnik <andrey@sitnik.ru>

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postcss-selector-parser@v2.2.3

License: MIT

Homepage: <<https://github.com/postcss/postcss-selector-parser>>

Author: Ben Briggs <beneb.info@gmail.com> (<http://beneb.info>)

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postcss-values-parser@v2.0.1

> A CSS property value parser for use with PostCSS

License: MIT

Author: Andrew Powell (shellscape) <andrew@shellscape.org> (<http://shellscape.org>)

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pseudomap@v1.0.2

> A thing that is a lot like ES6 `Map`, but without iterators, for use in environments where `for..of` syntax and `Map` are not available.

License: ISC

Homepage: <<https://github.com/isaacs/pseudomap#readme>>

Repository: <[git+https://github.com/isaacs/pseudomap.git](https://github.com/isaacs/pseudomap.git)>

Author: Isaac Z. Schlueter <i@izs.me> (<http://blog.izs.me/>)

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queue-microtask@v1.2.3

> fast, tiny `queueMicrotask` shim for modern engines

License: MIT

Homepage: <<https://github.com/feross/queue-microtask>>

Repository: <[git://github.com/feross/queue-microtask.git](https://github.com/feross/queue-microtask.git)>

Author: Feross Aboukhadijeh <feross@feross.org> (<https://feross.org>)

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remark-footnotes@v2.0.0

> remark plugin to add support for pandoc footnotes

License: MIT

Author: Titus Wormer <tituswormer@gmail.com> (<https://wooorm.com>)

Contributors:

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remark-math@v3.0.1

> remark plugin to parse and stringify math

License: MIT

Author: Junyoung Choi <fluke8259@gmail.com> (<https://rokt33r.github.io>)

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- Titus Wormer <tituswormer@gmail.com> (<https://woorm.com>)

remark-parse@v8.0.3

> remark plugin to parse Markdown

License: MIT

Homepage: <<https://remark.js.org>>

Author: Titus Wormer <tituswormer@gmail.com> (<https://woorm.com>)

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- Ika <ikatyang@gmail.com>

repeat-string@v1.6.1

> Repeat the given string n times. Fastest implementation for repeating a string.

License: MIT

Homepage: <<https://github.com/jonschlinkert/repeat-string>>

Author: Jon Schlinkert (<http://github.com/jonschlinkert>)

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resolve-from@v4.0.0

> Resolve the path of a module like `require.resolve()` but from a given path

License: MIT

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reusify@v1.0.4

> Reuse objects and functions with style

License: MIT

Homepage: <<https://github.com/mcollina/reusify#readme>>

Repository: <[git+https://github.com/mcollina/reusify.git](https://github.com/mcollina/reusify.git)>

Author: Matteo Collina <hello@matteocollina.com>

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rimraf@v3.0.2

> A deep deletion module for node (like `rm -rf`)

License: ISC

Author: Isaac Z. Schlueter <i@izs.me> (<http://blog.izs.me/>)

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run-parallel@v1.2.0

> Run an array of functions in parallel

License: MIT

Homepage: <<https://github.com/feross/run-parallel>>

Repository: <[git://github.com/feross/run-parallel.git](https://github.com/feross/run-parallel.git)>

Author: Feross Aboukhadijeh <feross@feross.org> (<https://feross.org>)

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sdbm@v2.0.0

- > SDBM non-cryptographic hash function

License: MIT

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semver@v7.5.4

- > The semantic version parser used by npm.

License: ISC

Repository: <<https://github.com/npm/node-semver.git>>

Author: GitHub Inc.

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semver-compare@v1.0.0

> compare two semver version strings, returning -1, 0, or 1

License: MIT

Homepage: <<https://github.com/substack/semver-compare>>

Repository: <<git://github.com/substack/semver-compare.git>>

Author: James Halliday <mail@substack.net> (<http://substack.net>)

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sigmund@v1.0.1

> Quick and dirty signatures for Objects.

License: ISC

Repository: <git://github.com/isaacs/sigmund>

Author: Isaac Z. Schlueter <i@izs.me> (<http://blog.izs.me/>)

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simple-html-tokenizer@v0.5.11

> Simple HTML Tokenizer is a lightweight JavaScript library that can be used to tokenize the kind of HTML normally found in templates.

License: MIT

Repository: <<https://github.com/tildeio/simple-html-tokenizer.git>>

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state-toggle@v1.0.3

> Enter/exit a state

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strip-ansi@v7.1.0

> Strip ANSI escape codes from a string

License: MIT

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supports-color@v5.5.0

> Detect whether a terminal supports color

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to-fast-properties@v4.0.0

> Force V8 to use fast properties for an object

License: MIT

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to-regex-range@v5.0.1

> Pass two numbers, get a regex-compatible source string for matching ranges. Validated against more than 2.78 million test assertions.

License: MIT

Homepage: <<https://github.com/micromatch/to-regex-range>>

Author: Jon Schlinkert (<https://github.com/jonschlinkert>)

Contributors:

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- Rouven Weling (www.rouvenwessling.de)

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trim@v1.0.1

> Trim string whitespace

License: MIT

Repository: <<https://github.com/Trott/trim.git>>

Author: TJ Holowaychuk <tj@vision-media.ca>

trim-trailing-lines@v1.1.4

> Remove final line feeds from a string

License: MIT

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trough@v1.0.5

- > Middleware: a channel used to convey a liquid

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ts-api-utils@v1.0.1

> Utility functions for working with TypeScript's API. Successor to the wonderful tsutils.

License: MIT

Repository: <<https://github.com/JoshuaKGoldberg/ts-api-utils>>

Author: Josh Goldberg <npm@joshuakgoldberg.com>

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typescript@v5.1.6

> TypeScript is a language for application scale JavaScript development

License: Apache-2.0

Homepage: <<https://www.typescriptlang.org/>>

Repository: <<https://github.com/Microsoft/TypeScript.git>>

Author: Microsoft Corp.

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unherit@v1.1.3

> Clone a constructor without affecting the super-class

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unified@v9.2.2

> Interface for parsing, inspecting, transforming, and serializing content through syntax trees

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Homepage: <<https://unifiedjs.com>>

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uniq@v1.0.1

> Removes duplicates from a sorted array in place

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Repository: <git://github.com/mikolalysenko/uniq.git>

Author: Mikola Lysenko

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unist-util-is@v4.1.0

> unist utility to check if a node passes a test

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unist-util-remove-position@v2.0.1

> unist utility to remove positions from a tree

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unist-util-stringify-position@v2.0.3

> unist utility to serialize a node, position, or point as a human readable location

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unist-util-visit@v2.0.3

> unist utility to visit nodes

License: MIT

Author: Titus Wormer <tituswormer@gmail.com> (<https://wooorm.com>)

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unist-util-visit-parents@v3.1.1

> unist utility to recursively walk over nodes, with ancestral information

License: MIT

Author: Titus Wormer <tituswormer@gmail.com> (<https://wooorm.com>)

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vfile@v4.2.1

- > Virtual file format for text processing

License: MIT

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vfile-location@v3.2.0

> vfile utility to convert between positional (line and column-based) and offset (range-based) locations

License: MIT

Author: Titus Wormer <tituswormer@gmail.com> (<https://wooorm.com>)

Contributors:

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- Christian Murphy <christian.murphy.42@gmail.com>

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vfile-message@v2.0.4

> vfile utility to create a virtual message

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vnopts@v2.0.0

> validate and normalize options

License: MIT

Homepage: <<https://github.com/ikatyang/vnopts#readme>>

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wewidth@v1.0.1

> Port of C's wewidth() and wcswidth()

License: MIT

Homepage: <<https://github.com/timoxley/wewidth#readme>>

Repository: <[git+https://github.com/timoxley/wewidth.git](https://github.com/timoxley/wewidth.git)>

Author: Tim Oxley

Contributors:

- Woong Jun <woong.jun@gmail.com> (<http://code.woong.org/>)

> wewidth.js: JavaScript Porting of Markus Kuhn's wewidth() Implementation

> =====

>

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> This package is a JavaScript porting of `wewidth()` implementation

> [by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wewidth.c>).

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wrappy@v1.0.2

> Callback wrapping utility

License: ISC

Homepage: <<https://github.com/npm/wrappy>>

Repository: <<https://github.com/npm/wrappy>>

Author: Isaac Z. Schlueter <i@izs.me> (<http://blog.izs.me/>)

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xtend@v4.0.2

> extend like a boss

License: MIT

Homepage: <<https://github.com/Raynos/xtend>>

Author: Raynos <raynos2@gmail.com>

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yallist@v2.1.2

> Yet Another Linked List

License: ISC

Repository: <git+https://github.com/isaacs/yallist.git>

Author: Isaac Z. Schlueter <i@izs.me> (<http://blog.izs.me/>)

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yaml@v1.10.2

> JavaScript parser and stringifier for YAML

License: ISC

Homepage: <<https://eemeli.org/yaml/v1/>>

Author: Eemeli Aro <eemeli@gmail.com>

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yaml-unist-parser@v2.0.1

> A YAML parser that produces output compatible with unist

License: MIT

Homepage: <<https://github.com/prettier/yaml-unist-parser#readme>>

Author: Ika <ikatyang@gmail.com> (<https://github.com/ikatyang>)

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yocto-queue@v1.0.0

> Tiny queue data structure

License: MIT

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1.347 babel-runtime-corejs2 7.22.10

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1.348 java-websocket 1.5.3

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1.349

androidx.constraintlayout.constraintlayout

2.1.4

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Found in path(s):

```
* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/widget/Constraints.java
* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/widget/Placeholder.java
* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/widget/ConstraintAttribute.java
* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/widget/Barrier.java
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- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/TouchResponse.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionPaths.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/Debug.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/ImageFilterView.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyPositionBase.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionController.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintProperties.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyTrigger.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/ImageFilterButton.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintsChangedListener.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionScene.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionLayout.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyAttributes.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/DesignTool.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/StateSet.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/Animatable.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/StopLogic.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyFrames.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/MotionTelltails.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/Key.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintLayoutStates.java
- * /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyCycle.java

* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyPosition.java
* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/VirtualLayout.java
* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/CustomFloatAttributes.java
* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyTimeCycle.java

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* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/Flow.java
* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/TransitionBuilder.java
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* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/ViewTimeCycle.java
* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/ViewTransitionController.java
* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/ViewSpline.java
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* /opt/cola/permits/1763092477_1691596828.6476207/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/ViewOscillator.java
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jar/androidx/constraintlayout/motion/widget/MotionHelper.java
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jar/androidx/constraintlayout/motion/utils/ViewState.java
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