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

## 1.4 CDI - mtdwrap 1.0

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```
===== */
```

```
/*
```

```
curlx.c Authors: Peter Sylvester, Jean-Paul Merlin
```

```
This is a little program to demonstrate the usage of
```

- an ssl initialisation callback setting a user key and trustbases coming from a pkcs12 file
- using an ssl application callback to find a URI in the certificate presented during ssl session establishment.

```
*/
```

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# 1.6 ffmpeg 0.11.1

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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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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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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 wrjpgcom.  
\*.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

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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.

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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.

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## 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.sgi.com](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/jpegsrsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact [help@uunet.uu.net](mailto: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/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

## RELATED SOFTWARE

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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 PBPLUS 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 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 PBPLUS/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

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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

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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](mailto:jpeg-info@uunet.uu.net).

## 1.15 libpng 1.5.2

## 1.15.1 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  
March 31, 2011

## 1.16 libupnp 1.2.1a

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# 1.17 Linux Kernel 3.3.8-3.0

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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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the module unloading problems, ...

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for his work on calculating and checking the crc's for the  
TechnoTrend/Hauppage DEC driver firmware

Michael Dreher <michael@5dot1.de>  
Andreas 'randy' Weinberger  
for the support of the Fujitsu-Siemens Activy budget DVB-S

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

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

Peter Beutner <p.beutner@gmx.net>

for the IR code for the ttusb-dec driver

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

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

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

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

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

(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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Version 1.0

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

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```
/* enter.ash -- LZO assembler stuff
```

This file is part of the LZO real-time data compression library.

```
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ftl\_format.c 1.13 1999/10/25 20:01:35

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/* *                                     */
/* * **** */
/* *                                     */
/* * Parts of this software have been adapted from the libpng package.    */
/* * Although this library supports all features from the PNG specification */
/* * (as MNG descends from it) it does not require the libpng package.    */
/* * It does require the zlib library and optionally the IJG jpeg library, */
/* * and/or the "little-cms" library by Marti Maria (depending on the      */
/* * inclusion of support for JNG and Full-Color-Management respectively.  */
/* *                                     */
/* * This library's function is primarily to read and display MNG          */
/* * animations. It is not meant as a full-featured image-editing        */
/* * component! It does however offer creation and editing functionality   */
/* * at the chunk level.                                                  */
/* * (future modifications may include some more support for creation     */
/* * and or editing)                                                      */
/* *                                     */
/* * **** */

```

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```

78677__joe93barlow__strike2.wav
47251__nthompson__rocket.wav
3378__patchen__Rhino_03.wav
3258__Jovica__Dronetail_02.wav
30351__Matt_G__Space_Fighter_Pass.wav
32954__HardPCM__Chip054.wav
32985__HardPCM__Alarm001.wav
33245__ljudman__grenade.wav
78678__joe93barlow__swing0.wav
80401__steveygos93__Explosion2.wav

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\*/

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

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

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

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```

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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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\*/

From gsf@research.att.com Wed Mar 1 20:30:54 2006

Return-Path: <gsf@research.att.com>

X-Original-To: mps@bridge.intra

Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1])

by localhost (Postfix) with ESMTP id B8C814E4F

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)

Received: from mail.bridge.intra ([127.0.0.1])

by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)

with LMTP id 05987-03 for <mps@bridge.intra>;

Wed, 1 Mar 2006 20:30:42 +0100 (CET)

Received: from pop.gmx.net (localhost [127.0.0.1])

by mail.bridge.intra (Postfix) with ESMTP id C8C73794D

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)

X-Flags: 0000

Delivered-To: GMX delivery to ps.m@gmx.net

Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000

Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]

by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100

Received: from raptor.research.att.com (raptor.research.att.com [135.207.23.32])

by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB

for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)

Received: (from gsf@localhost)

by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112

for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)



Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)  
From: Glenn Fowler <gsf@research.att.com>  
Message-Id: <200603011923.OAA86112@raptor.research.att.com>  
Organization: AT&T Research  
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>  
To: mps@bridge.intra  
Subject: Re: testregex licensing question  
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)  
X-GMX-Antispam: 0 (Mail was not recognized as spam)  
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca  
X-Virus-Scanned: by amavisd-new at localhost  
Status: RO  
X-Status:  
X-Keywords:  
X-UID: 44736

you may include it directly  
retain the testregex.c header comment  
it uses a very free license to maximize distribution  
you can copy that .c comment to any test data files you use  
using # comment style to be complete

let me know how it works with your libc  
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

> Hello Glenn!

> I would want to add testregex.c and the related \*.dat files to the uClibc  
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any  
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite  
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net>

ID: 0xA5F059F2

> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

# 1.28 Webkit r116000-xNDS-custom :Stan- r0.38.2

## 1.28.1 Available under license :

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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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Version 3, 29 June 2007

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## TERMS AND CONDITIONS

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```
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```
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```

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002
```

```
Copyright (C) 1995-2002 Jean-loup Gailly and Mark Adler
```

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

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

\*/

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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```
/* This is the public header file for JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed. This library now supports only the regular expression features required by the JavaScript language specification, and has only the functions needed by JavaScriptCore and the rest of WebKit.
```





```

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/* *                                                         */
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/* * It does require the zlib library and optionally the IJG jpeg library, */
/* * and/or the "little-cms" library by Marti Maria (depending on the */
/* * inclusion of support for JNG and Full-Color-Management respectively. */
/* *                                                         */
/* * This library's function is primarily to read and display MNG */
/* * animations. It is not meant as a full-featured image-editing */
/* * component! It does however offer creation and editing functionality */
/* * at the chunk level.                                     */
/* * (future modifications may include some more support for creation */
/* * and or editing)                                       */
/* *                                                         */
/* ***** */

```

```

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/* * Parts of this software have been adapted from the libpng package. */
/* * Although this library supports all features from the PNG specification */
/* * (as MNG descends from it) it does not require the libpng package. */
/* * It does require the zlib library and optionally the IJG jpeg library, */

```

```

/* * and/or the "little-cms" library by Marti Maria (depending on the   */
/* * inclusion of support for JNG and Full-Color-Management respectively. */
/* *                               */
/* * This library's function is primarily to read and display MNG       */
/* * animations. It is not meant as a full-featured image-editing      */
/* * component! It does however offer creation and editing functionality */
/* * at the chunk level.                                               */
/* * (future modifications may include some more support for creation   */
/* * and or editing)                                                   */
/* *                               */
/* ***** */

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```
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```

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

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12464;12522;12501;12454;12451;12461;12395;30331;37682;12373;12428;12390;12356;12427;12464;12522;12501;12487;12540;12479;12362;12424;12403;35352;20107;12399;12289;35504;12418;12364;33258;30001;12395;21033;29992;12391;12365;12427;12371;12392;12392;12375;12414;12377;12290;35079;35069;12289;25913;22793;12394;12393;12398;20108;27425;21033;29992;12434;35469;12417;12427;12418;12398;12392;12375;12414;12377;12290;33879;20316;32773;34920;31034;12418;29305;12395;21046;38480;12434;35373;12369;12414;12379;12435;12290;26032;12375;12356;12501;12457;12531;12488;12398;12505;12540;12473;12487;12540;12479;12392;12375;12390;29992;12356;12427;12371;12392;12420;12289;12381;12398;12414;12414;12467;12500;12540;12375;12383;12418;12398;12434;12501;12457;12531;12488;12392;12375;12390;33879;20316;29289;12392;12377;12427;12371;12392;12434;22952;12370;12414;12379;12435;12290;35352;20107;20013;12395;24341;29992;12373;12428;12390;12356;12427;37096;20998;12395;12388;12356;12390;12399;12289;12464;12522;12501;12454;12451;12461;12395;12399;33879;20316;27177;12399;12354;12426;12414;12379;12435;12398;12391;24341;29992;20803;12398;12521;12452;12475;12531;12473;12434;30906;35469;12375;12390;2367;12384;12373;12356;12290;



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This package was debianized by Chris Willing [c.willing@uq.edu.au](mailto:c.willing@uq.edu.au) on Thu, Sat, 11 Apr 2009 12:54:52 +1000

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## 1.30 WIFI Drivers

### DPA\_RT5572\_LinuxSTA\_2.6.1.4\_20121211

#### 1.30.1 Available under license :

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MODULE_LICENSE("GPL")
```

## 1.31 zlib 1.2.7

#### 1.31.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.7, May 2nd, 2012
```

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

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

\*/

```
#ifndef ZLIB_H
#define ZLIB_H
```

```
#include "zconf.h"
```

```
#ifdef __cplusplus
extern "C" {
#endif
```

```
#define ZLIB_VERSION "1.2.7"
#define ZLIB_VERNUM 0x1270
#define ZLIB_VER_MAJOR 1
#define ZLIB_VER_MINOR 2
#define ZLIB_VER_REVISION 7
#define ZLIB_VER_SUBREVISION 0
```

```
/*
```

The 'zlib' compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data. This version of the library supports only one compression method (deflation) but other algorithms will be added later and will have the same stream interface.

Compression can be done in a single step if the buffers are large enough, or can be done by repeated calls of the compression function. In the latter case, the application must provide more input and/or consume the output (providing more output space) before each call.

The compressed data format used by default by the in-memory functions is the zlib format, which is a zlib wrapper documented in RFC 1950, wrapped around a deflate stream, which is itself documented in RFC 1951.

The library also supports reading and writing files in gzip (.gz) format with an interface similar to that of stdio using the functions that start with "gz". The gzip format is different from the zlib format. gzip is a gzip wrapper, documented in RFC 1952, wrapped around a deflate stream.

This library can optionally read and write gzip streams in memory as well.

The zlib format was designed to be compact and fast for use in memory and on communications channels. The gzip format was designed for single-file compression on file systems, has a larger header than zlib to maintain directory information, and uses a different, slower check method than zlib.

The library does not install any signal handler. The decoder checks the consistency of the compressed data, so the library should never crash even in case of corrupted input.

```
*/

typedef voidpf (*alloc_func) OF((voidpf opaque, uInt items, uInt size));
typedef void (*free_func) OF((voidpf opaque, voidpf address));

struct internal_state;

typedef struct z_stream_s {
    z_const Bytef *next_in; /* next input byte */
    uInt avail_in; /* number of bytes available at next_in */
    uLong total_in; /* total number of input bytes read so far */

    Bytef *next_out; /* next output byte should be put there */
    uInt avail_out; /* remaining free space at next_out */
    uLong total_out; /* total number of bytes output so far */

    z_const char *msg; /* last error message, NULL if no error */
    struct internal_state FAR *state; /* not visible by applications */

    alloc_func zalloc; /* used to allocate the internal state */
    free_func zfree; /* used to free the internal state */
    voidpf opaque; /* private data object passed to zalloc and zfree */

    int data_type; /* best guess about the data type: binary or text */
    uLong Adler; /* Adler32 value of the uncompressed data */
    uLong reserved; /* reserved for future use */
} z_stream;

typedef z_stream FAR *z_stream;

/*
    gzip header information passed to and from zlib routines. See RFC 1952
    for more details on the meanings of these fields.
*/

typedef struct gz_header_s {
    int text; /* true if compressed data believed to be text */
    uLong time; /* modification time */

```

```

int  xflags; /* extra flags (not used when writing a gzip file) */
int  os;     /* operating system */
Bytef *extra; /* pointer to extra field or Z_NULL if none */
uInt  extra_len; /* extra field length (valid if extra != Z_NULL) */
uInt  extra_max; /* space at extra (only when reading header) */
Bytef *name; /* pointer to zero-terminated file name or Z_NULL */
uInt  name_max; /* space at name (only when reading header) */
Bytef *comment; /* pointer to zero-terminated comment or Z_NULL */
uInt  comm_max; /* space at comment (only when reading header) */
int  hcrc; /* true if there was or will be a header crc */
int  done; /* true when done reading gzip header (not used
           when writing a gzip file) */
} gz_header;

```

```
typedef gz_header FAR *gz_headerp;
```

```
/*
```

The application must update next\_in and avail\_in when avail\_in has dropped to zero. It must update next\_out and avail\_out when avail\_out has dropped to zero. The application must initialize zalloc, zfree and opaque before calling the init function. All other fields are set by the compression library and must not be updated by the application.

The opaque value provided by the application will be passed as the first parameter for calls of zalloc and zfree. This can be useful for custom memory management. The compression library attaches no meaning to the opaque value.

zalloc must return Z\_NULL if there is not enough memory for the object. If zlib is used in a multi-threaded application, zalloc and zfree must be thread safe.

On 16-bit systems, the functions zalloc and zfree must be able to allocate exactly 65536 bytes, but will not be required to allocate more than this if the symbol MAXSEG\_64K is defined (see zconf.h). **WARNING:** On MSDOS, pointers returned by zalloc for objects of exactly 65536 bytes *must* have their offset normalized to zero. The default allocation function provided by this library ensures this (see zutil.c). To reduce memory requirements and avoid any allocation of 64K objects, at the expense of compression ratio, compile the library with -DMAX\_WBITS=14 (see zconf.h).

The fields total\_in and total\_out can be used for statistics or progress reports. After compression, total\_in holds the total size of the uncompressed data and may be saved for use in the decompressor (particularly if the decompressor wants to decompress everything in a single step).

```
*/
```

```
/* constants */
```

```

#define Z_NO_FLUSH    0
#define Z_PARTIAL_FLUSH 1
#define Z_SYNC_FLUSH  2
#define Z_FULL_FLUSH  3
#define Z_FINISH      4
#define Z_BLOCK        5
#define Z_TREES        6
/* Allowed flush values; see deflate() and inflate() below for details */

#define Z_OK           0
#define Z_STREAM_END   1
#define Z_NEED_DICT    2
#define Z_ERRNO        (-1)
#define Z_STREAM_ERROR (-2)
#define Z_DATA_ERROR   (-3)
#define Z_MEM_ERROR    (-4)
#define Z_BUF_ERROR    (-5)
#define Z_VERSION_ERROR (-6)
/* Return codes for the compression/decompression functions. Negative values
* are errors, positive values are used for special but normal events.
*/

#define Z_NO_COMPRESSION    0
#define Z_BEST_SPEED        1
#define Z_BEST_COMPRESSION  9
#define Z_DEFAULT_COMPRESSION (-1)
/* compression levels */

#define Z_FILTERED          1
#define Z_HUFFMAN_ONLY      2
#define Z_RLE                3
#define Z_FIXED              4
#define Z_DEFAULT_STRATEGY  0
/* compression strategy; see deflateInit2() below for details */

#define Z_BINARY    0
#define Z_TEXT      1
#define Z_ASCII     Z_TEXT /* for compatibility with 1.2.2 and earlier */
#define Z_UNKNOWN   2
/* Possible values of the data_type field (though see inflate()) */

#define Z_DEFLATED  8
/* The deflate compression method (the only one supported in this version) */

#define Z_NULL 0 /* for initializing zalloc, zfree, opaque */

#define zlib_version zlibVersion()

```

/\* for compatibility with versions < 1.0.2 \*/

/\* basic functions \*/

ZEXTERN const char \* ZEXPORT zlibVersion OF((void));

/\* The application can compare zlibVersion and ZLIB\_VERSION for consistency.

If the first character differs, the library code actually used is not compatible with the zlib.h header file used by the application. This check is automatically made by deflateInit and inflateInit.

\*/

/\*

ZEXTERN int ZEXPORT deflateInit OF((z\_streamp strm, int level));

Initializes the internal stream state for compression. The fields zalloc, zfree and opaque must be initialized before by the caller. If zalloc and zfree are set to Z\_NULL, deflateInit updates them to use default allocation functions.

The compression level must be Z\_DEFAULT\_COMPRESSION, or between 0 and 9: 1 gives best speed, 9 gives best compression, 0 gives no compression at all (the input data is simply copied a block at a time). Z\_DEFAULT\_COMPRESSION requests a default compromise between speed and compression (currently equivalent to level 6).

deflateInit returns Z\_OK if success, Z\_MEM\_ERROR if there was not enough memory, Z\_STREAM\_ERROR if level is not a valid compression level, or Z\_VERSION\_ERROR if the zlib library version (zlib\_version) is incompatible with the version assumed by the caller (ZLIB\_VERSION). msg is set to null if there is no error message. deflateInit does not perform any compression: this will be done by deflate().

\*/

ZEXTERN int ZEXPORT deflate OF((z\_streamp strm, int flush));

/\*

deflate compresses as much data as possible, and stops when the input buffer becomes empty or the output buffer becomes full. It may introduce some output latency (reading input without producing any output) except when forced to flush.

The detailed semantics are as follows. deflate performs one or both of the following actions:

- Compress more input starting at next\_in and update next\_in and avail\_in accordingly. If not all input can be processed (because there is not enough room in the output buffer), next\_in and avail\_in are updated and

processing will resume at this point for the next call of deflate().

- Provide more output starting at next\_out and update next\_out and avail\_out accordingly. This action is forced if the parameter flush is non zero. Forcing flush frequently degrades the compression ratio, so this parameter should be set only when necessary (in interactive applications). Some output may be provided even if flush is not set.

Before the call of deflate(), the application should ensure that at least one of the actions is possible, by providing more input and/or consuming more output, and updating avail\_in or avail\_out accordingly; avail\_out should never be zero before the call. The application can consume the compressed output when it wants, for example when the output buffer is full (avail\_out == 0), or after each call of deflate(). If deflate returns Z\_OK and with zero avail\_out, it must be called again after making room in the output buffer because there might be more output pending.

Normally the parameter flush is set to Z\_NO\_FLUSH, which allows deflate to decide how much data to accumulate before producing output, in order to maximize compression.

If the parameter flush is set to Z\_SYNC\_FLUSH, all pending output is flushed to the output buffer and the output is aligned on a byte boundary, so that the decompressor can get all input data available so far. (In particular avail\_in is zero after the call if enough output space has been provided before the call.) Flushing may degrade compression for some compression algorithms and so it should be used only when necessary. This completes the current deflate block and follows it with an empty stored block that is three bits plus filler bits to the next byte, followed by four bytes (00 00 ff ff).

If flush is set to Z\_PARTIAL\_FLUSH, all pending output is flushed to the output buffer, but the output is not aligned to a byte boundary. All of the input data so far will be available to the decompressor, as for Z\_SYNC\_FLUSH. This completes the current deflate block and follows it with an empty fixed codes block that is 10 bits long. This assures that enough bytes are output in order for the decompressor to finish the block before the empty fixed code block.

If flush is set to Z\_BLOCK, a deflate block is completed and emitted, as for Z\_SYNC\_FLUSH, but the output is not aligned on a byte boundary, and up to seven bits of the current block are held to be written as the next byte after the next deflate block is completed. In this case, the decompressor may not be provided enough bits at this point in order to complete decompression of the data provided so far to the compressor. It may need to wait for the next block to be emitted. This is for advanced applications that need to control the emission of deflate blocks.

If flush is set to `Z_FULL_FLUSH`, all output is flushed as with `Z_SYNC_FLUSH`, and the compression state is reset so that decompression can restart from this point if previous compressed data has been damaged or if random access is desired. Using `Z_FULL_FLUSH` too often can seriously degrade compression.

If deflate returns with `avail_out == 0`, this function must be called again with the same value of the flush parameter and more output space (updated `avail_out`), until the flush is complete (deflate returns with non-zero `avail_out`). In the case of a `Z_FULL_FLUSH` or `Z_SYNC_FLUSH`, make sure that `avail_out` is greater than six to avoid repeated flush markers due to `avail_out == 0` on return.

If the parameter flush is set to `Z_FINISH`, pending input is processed, pending output is flushed and deflate returns with `Z_STREAM_END` if there was enough output space; if deflate returns with `Z_OK`, this function must be called again with `Z_FINISH` and more output space (updated `avail_out`) but no more input data, until it returns with `Z_STREAM_END` or an error. After deflate has returned `Z_STREAM_END`, the only possible operations on the stream are `deflateReset` or `deflateEnd`.

`Z_FINISH` can be used immediately after `deflateInit` if all the compression is to be done in a single step. In this case, `avail_out` must be at least the value returned by `deflateBound` (see below). Then deflate is guaranteed to return `Z_STREAM_END`. If not enough output space is provided, deflate will not return `Z_STREAM_END`, and it must be called again as described above.

`deflate()` sets `strm->adler` to the adler32 checksum of all input read so far (that is, `total_in` bytes).

`deflate()` may update `strm->data_type` if it can make a good guess about the input data type (`Z_BINARY` or `Z_TEXT`). In doubt, the data is considered binary. This field is only for information purposes and does not affect the compression algorithm in any manner.

`deflate()` returns `Z_OK` if some progress has been made (more input processed or more output produced), `Z_STREAM_END` if all input has been consumed and all output has been produced (only when flush is set to `Z_FINISH`), `Z_STREAM_ERROR` if the stream state was inconsistent (for example if `next_in` or `next_out` was `Z_NULL`), `Z_BUF_ERROR` if no progress is possible (for example `avail_in` or `avail_out` was zero). Note that `Z_BUF_ERROR` is not fatal, and `deflate()` can be called again with more input and more output space to continue compressing.

\*/

```
ZEXTERN int ZEXPORT deflateEnd OF((z_streamp strm));
```

/\*

All dynamically allocated data structures for this stream are freed. This function discards any unprocessed input and does not flush any pending output.

deflateEnd returns Z\_OK if success, Z\_STREAM\_ERROR if the stream state was inconsistent, Z\_DATA\_ERROR if the stream was freed prematurely (some input or output was discarded). In the error case, msg may be set but then points to a static string (which must not be deallocated).

\*/

/\*

```
ZEXTERN int ZEXPORT inflateInit OF((z_streamp strm));
```

Initializes the internal stream state for decompression. The fields next\_in, avail\_in, zalloc, zfree and opaque must be initialized before by the caller. If next\_in is not Z\_NULL and avail\_in is large enough (the exact value depends on the compression method), inflateInit determines the compression method from the zlib header and allocates all data structures accordingly; otherwise the allocation will be deferred to the first call of inflate. If zalloc and zfree are set to Z\_NULL, inflateInit updates them to use default allocation functions.

inflateInit returns Z\_OK if success, Z\_MEM\_ERROR if there was not enough memory, Z\_VERSION\_ERROR if the zlib library version is incompatible with the version assumed by the caller, or Z\_STREAM\_ERROR if the parameters are invalid, such as a null pointer to the structure. msg is set to null if there is no error message. inflateInit does not perform any decompression apart from possibly reading the zlib header if present: actual decompression will be done by inflate(). (So next\_in and avail\_in may be modified, but next\_out and avail\_out are unused and unchanged.) The current implementation of inflateInit() does not process any header information -- that is deferred until inflate() is called.

\*/

```
ZEXTERN int ZEXPORT inflate OF((z_streamp strm, int flush));
```

/\*

inflate decompresses as much data as possible, and stops when the input buffer becomes empty or the output buffer becomes full. It may introduce some output latency (reading input without producing any output) except when forced to flush.

The detailed semantics are as follows. inflate performs one or both of the following actions:

- Decompress more input starting at next\_in and update next\_in and avail\_in



accordingly. If not all input can be processed (because there is not enough room in the output buffer), `next_in` is updated and processing will resume at this point for the next call of `inflate()`.

- Provide more output starting at `next_out` and update `next_out` and `avail_out` accordingly. `inflate()` provides as much output as possible, until there is no more input data or no more space in the output buffer (see below about the flush parameter).

Before the call of `inflate()`, the application should ensure that at least one of the actions is possible, by providing more input and/or consuming more output, and updating the `next_*` and `avail_*` values accordingly. The application can consume the uncompressed output when it wants, for example when the output buffer is full (`avail_out == 0`), or after each call of `inflate()`. If `inflate` returns `Z_OK` and with zero `avail_out`, it must be called again after making room in the output buffer because there might be more output pending.

The flush parameter of `inflate()` can be `Z_NO_FLUSH`, `Z_SYNC_FLUSH`, `Z_FINISH`, `Z_BLOCK`, or `Z_TREES`. `Z_SYNC_FLUSH` requests that `inflate()` flush as much output as possible to the output buffer. `Z_BLOCK` requests that `inflate()` stop if and when it gets to the next deflate block boundary. When decoding the zlib or gzip format, this will cause `inflate()` to return immediately after the header and before the first block. When doing a raw inflate, `inflate()` will go ahead and process the first block, and will return when it gets to the end of that block, or when it runs out of data.

The `Z_BLOCK` option assists in appending to or combining deflate streams. Also to assist in this, on return `inflate()` will set `strm->data_type` to the number of unused bits in the last byte taken from `strm->next_in`, plus 64 if `inflate()` is currently decoding the last block in the deflate stream, plus 128 if `inflate()` returned immediately after decoding an end-of-block code or decoding the complete header up to just before the first byte of the deflate stream. The end-of-block will not be indicated until all of the uncompressed data from that block has been written to `strm->next_out`. The number of unused bits may in general be greater than seven, except when bit 7 of `data_type` is set, in which case the number of unused bits will be less than eight. `data_type` is set as noted here every time `inflate()` returns for all flush options, and so can be used to determine the amount of currently consumed input in bits.

The `Z_TREES` option behaves as `Z_BLOCK` does, but it also returns when the end of each deflate block header is reached, before any actual data in that block is decoded. This allows the caller to determine the length of the deflate block header for later use in random access within a deflate block. 256 is added to the value of `strm->data_type` when `inflate()` returns immediately after reaching the end of the deflate block header.

`inflate()` should normally be called until it returns `Z_STREAM_END` or an error. However if all decompression is to be performed in a single step (a single call of `inflate`), the parameter `flush` should be set to `Z_FINISH`. In this case all pending input is processed and all pending output is flushed; `avail_out` must be large enough to hold all of the uncompressed data for the operation to complete. (The size of the uncompressed data may have been saved by the compressor for this purpose.) The use of `Z_FINISH` is not required to perform an inflation in one step. However it may be used to inform `inflate` that a faster approach can be used for the single `inflate()` call. `Z_FINISH` also informs `inflate` to not maintain a sliding window if the stream completes, which reduces `inflate`'s memory footprint. If the stream does not complete, either because not all of the stream is provided or not enough output space is provided, then a sliding window will be allocated and `inflate()` can be called again to continue the operation as if `Z_NO_FLUSH` had been used.

In this implementation, `inflate()` always flushes as much output as possible to the output buffer, and always uses the faster approach on the first call. So the effects of the flush parameter in this implementation are on the return value of `inflate()` as noted below, when `inflate()` returns early when `Z_BLOCK` or `Z_TREES` is used, and when `inflate()` avoids the allocation of memory for a sliding window when `Z_FINISH` is used.

If a preset dictionary is needed after this call (see `inflateSetDictionary` below), `inflate` sets `strm->adler` to the Adler-32 checksum of the dictionary chosen by the compressor and returns `Z_NEED_DICT`; otherwise it sets `strm->adler` to the Adler-32 checksum of all output produced so far (that is, `total_out` bytes) and returns `Z_OK`, `Z_STREAM_END` or an error code as described below. At the end of the stream, `inflate()` checks that its computed `adler32` checksum is equal to that saved by the compressor and returns `Z_STREAM_END` only if the checksum is correct.

`inflate()` can decompress and check either `zlib`-wrapped or `gzip`-wrapped deflate data. The header type is detected automatically, if requested when initializing with `inflateInit2()`. Any information contained in the `gzip` header is not retained, so applications that need that information should instead use raw `inflate`, see `inflateInit2()` below, or `inflateBack()` and perform their own processing of the `gzip` header and trailer. When processing `gzip`-wrapped deflate data, `strm->adler32` is set to the CRC-32 of the output produced so far. The CRC-32 is checked against the `gzip` trailer.

`inflate()` returns `Z_OK` if some progress has been made (more input processed or more output produced), `Z_STREAM_END` if the end of the compressed data has been reached and all uncompressed output has been produced, `Z_NEED_DICT` if a preset dictionary is needed at this point, `Z_DATA_ERROR` if the input data was corrupted (input stream not conforming to the `zlib` format or incorrect check value), `Z_STREAM_ERROR` if the stream structure was inconsistent (for example `next_in` or `next_out` was `Z_NULL`), `Z_MEM_ERROR` if there was not enough memory,

Z\_BUF\_ERROR if no progress is possible or if there was not enough room in the output buffer when Z\_FINISH is used. Note that Z\_BUF\_ERROR is not fatal, and inflate() can be called again with more input and more output space to continue decompressing. If Z\_DATA\_ERROR is returned, the application may then call inflateSync() to look for a good compression block if a partial recovery of the data is desired.

\*/

```
ZEXTERN int ZEXPORT inflateEnd OF((z_streamp strm));
```

/\*

All dynamically allocated data structures for this stream are freed.

This function discards any unprocessed input and does not flush any pending output.

inflateEnd returns Z\_OK if success, Z\_STREAM\_ERROR if the stream state was inconsistent. In the error case, msg may be set but then points to a static string (which must not be deallocated).

\*/

/\* Advanced functions \*/

/\*

The following functions are needed only in some special applications.

\*/

/\*

```
ZEXTERN int ZEXPORT deflateInit2 OF((z_streamp strm,  
                                     int level,  
                                     int method,  
                                     int windowBits,  
                                     int memLevel,  
                                     int strategy));
```

This is another version of deflateInit with more compression options. The fields next\_in, zalloc, zfree and opaque must be initialized before by the caller.

The method parameter is the compression method. It must be Z\_DEFLATED in this version of the library.

The windowBits parameter is the base two logarithm of the window size (the size of the history buffer). It should be in the range 8..15 for this version of the library. Larger values of this parameter result in better compression at the expense of memory usage. The default value is 15 if deflateInit is used instead.

windowBits can also be -8..-15 for raw deflate. In this case, -windowBits determines the window size. deflate() will then generate raw deflate data with no zlib header or trailer, and will not compute an Adler32 check value.

windowBits can also be greater than 15 for optional gzip encoding. Add 16 to windowBits to write a simple gzip header and trailer around the compressed data instead of a zlib wrapper. The gzip header will have no file name, no extra data, no comment, no modification time (set to zero), no header CRC, and the operating system will be set to 255 (unknown). If a gzip stream is being written, strm->adler is a CRC32 instead of an Adler32.

The memLevel parameter specifies how much memory should be allocated for the internal compression state. memLevel=1 uses minimum memory but is slow and reduces compression ratio; memLevel=9 uses maximum memory for optimal speed. The default value is 8. See zconf.h for total memory usage as a function of windowBits and memLevel.

The strategy parameter is used to tune the compression algorithm. Use the value Z\_DEFAULT\_STRATEGY for normal data, Z\_FILTERED for data produced by a filter (or predictor), Z\_HUFFMAN\_ONLY to force Huffman encoding only (no string match), or Z\_RLE to limit match distances to one (run-length encoding). Filtered data consists mostly of small values with a somewhat random distribution. In this case, the compression algorithm is tuned to compress them better. The effect of Z\_FILTERED is to force more Huffman coding and less string matching; it is somewhat intermediate between Z\_DEFAULT\_STRATEGY and Z\_HUFFMAN\_ONLY. Z\_RLE is designed to be almost as fast as Z\_HUFFMAN\_ONLY, but give better compression for PNG image data. The strategy parameter only affects the compression ratio but not the correctness of the compressed output even if it is not set appropriately. Z\_FIXED prevents the use of dynamic Huffman codes, allowing for a simpler decoder for special applications.

deflateInit2 returns Z\_OK if success, Z\_MEM\_ERROR if there was not enough memory, Z\_STREAM\_ERROR if any parameter is invalid (such as an invalid method), or Z\_VERSION\_ERROR if the zlib library version (zlib\_version) is incompatible with the version assumed by the caller (ZLIB\_VERSION). msg is set to null if there is no error message. deflateInit2 does not perform any compression: this will be done by deflate().

\*/

```
ZEXTERN int ZEXPORT deflateSetDictionary OF((z_streamp strm,
      const Bytef *dictionary,
      uInt dictLength));
```

/\*

Initializes the compression dictionary from the given byte sequence without producing any compressed output. When using the zlib format, this function must be called immediately after deflateInit, deflateInit2 or deflateReset, and before any call of deflate. When doing raw deflate, this

function must be called either before any call of `deflate`, or immediately after the completion of a `deflate` block, i.e. after all input has been consumed and all output has been delivered when using any of the flush options `Z_BLOCK`, `Z_PARTIAL_FLUSH`, `Z_SYNC_FLUSH`, or `Z_FULL_FLUSH`. The compressor and decompressor must use exactly the same dictionary (see `inflateSetDictionary`).

The dictionary should consist of strings (byte sequences) that are likely to be encountered later in the data to be compressed, with the most commonly used strings preferably put towards the end of the dictionary. Using a dictionary is most useful when the data to be compressed is short and can be predicted with good accuracy; the data can then be compressed better than with the default empty dictionary.

Depending on the size of the compression data structures selected by `deflateInit` or `deflateInit2`, a part of the dictionary may in effect be discarded, for example if the dictionary is larger than the window size provided in `deflateInit` or `deflateInit2`. Thus the strings most likely to be useful should be put at the end of the dictionary, not at the front. In addition, the current implementation of `deflate` will use at most the window size minus 262 bytes of the provided dictionary.

Upon return of this function, `strm->adler` is set to the `adler32` value of the dictionary; the decompressor may later use this value to determine which dictionary has been used by the compressor. (The `adler32` value applies to the whole dictionary even if only a subset of the dictionary is actually used by the compressor.) If a raw `deflate` was requested, then the `adler32` value is not computed and `strm->adler` is not set.

`deflateSetDictionary` returns `Z_OK` if success, or `Z_STREAM_ERROR` if a parameter is invalid (e.g. dictionary being `Z_NULL`) or the stream state is inconsistent (for example if `deflate` has already been called for this stream or if not at a block boundary for raw `deflate`). `deflateSetDictionary` does not perform any compression: this will be done by `deflate()`.

\*/

```
ZEXTERN int ZEXPORT deflateCopy OF((z_streamp dest,  
                                   z_streamp source));
```

/\*

Sets the destination stream as a complete copy of the source stream.

This function can be useful when several compression strategies will be tried, for example when there are several ways of pre-processing the input data with a filter. The streams that will be discarded should then be freed by calling `deflateEnd`. Note that `deflateCopy` duplicates the internal compression state which can be quite large, so this strategy is slow and can consume lots of memory.

deflateCopy returns Z\_OK if success, Z\_MEM\_ERROR if there was not enough memory, Z\_STREAM\_ERROR if the source stream state was inconsistent (such as zalloc being Z\_NULL). msg is left unchanged in both source and destination.

\*/

```
ZEXTERN int ZEXPORT deflateReset OF((z_streamp strm));
```

/\*

This function is equivalent to deflateEnd followed by deflateInit, but does not free and reallocate all the internal compression state. The stream will keep the same compression level and any other attributes that may have been set by deflateInit2.

deflateReset returns Z\_OK if success, or Z\_STREAM\_ERROR if the source stream state was inconsistent (such as zalloc or state being Z\_NULL).

\*/

```
ZEXTERN int ZEXPORT deflateParams OF((z_streamp strm,
                                     int level,
                                     int strategy));
```

/\*

Dynamically update the compression level and compression strategy. The interpretation of level and strategy is as in deflateInit2. This can be used to switch between compression and straight copy of the input data, or to switch to a different kind of input data requiring a different strategy. If the compression level is changed, the input available so far is compressed with the old level (and may be flushed); the new level will take effect only at the next call of deflate().

Before the call of deflateParams, the stream state must be set as for a call of deflate(), since the currently available input may have to be compressed and flushed. In particular, strm->avail\_out must be non-zero.

deflateParams returns Z\_OK if success, Z\_STREAM\_ERROR if the source stream state was inconsistent or if a parameter was invalid, Z\_BUF\_ERROR if strm->avail\_out was zero.

\*/

```
ZEXTERN int ZEXPORT deflateTune OF((z_streamp strm,
                                    int good_length,
                                    int max_lazy,
                                    int nice_length,
                                    int max_chain));
```

/\*

Fine tune deflate's internal compression parameters. This should only be used by someone who understands the algorithm used by zlib's deflate for searching for the best matching string, and even then only by the most fanatic optimizer trying to squeeze out the last compressed bit for their

specific input data. Read the deflate.c source code for the meaning of the max\_lazy, good\_length, nice\_length, and max\_chain parameters.

deflateTune() can be called after deflateInit() or deflateInit2(), and returns Z\_OK on success, or Z\_STREAM\_ERROR for an invalid deflate stream.

\*/

```
ZEXTERN uLong ZEXPORT deflateBound OF((z_streamp strm,
                                     uLong sourceLen));
```

/\*

deflateBound() returns an upper bound on the compressed size after deflation of sourceLen bytes. It must be called after deflateInit() or deflateInit2(), and after deflateSetHeader(), if used. This would be used to allocate an output buffer for deflation in a single pass, and so would be called before deflate(). If that first deflate() call is provided the sourceLen input bytes, an output buffer allocated to the size returned by deflateBound(), and the flush value Z\_FINISH, then deflate() is guaranteed to return Z\_STREAM\_END. Note that it is possible for the compressed size to be larger than the value returned by deflateBound() if flush options other than Z\_FINISH or Z\_NO\_FLUSH are used.

\*/

```
ZEXTERN int ZEXPORT deflatePending OF((z_streamp strm,
                                     unsigned *pending,
                                     int *bits));
```

/\*

deflatePending() returns the number of bytes and bits of output that have been generated, but not yet provided in the available output. The bytes not provided would be due to the available output space having been consumed. The number of bits of output not provided are between 0 and 7, where they await more bits to join them in order to fill out a full byte. If pending or bits are Z\_NULL, then those values are not set.

deflatePending returns Z\_OK if success, or Z\_STREAM\_ERROR if the source stream state was inconsistent.

\*/

```
ZEXTERN int ZEXPORT deflatePrime OF((z_streamp strm,
                                    int bits,
                                    int value));
```

/\*

deflatePrime() inserts bits in the deflate output stream. The intent is that this function is used to start off the deflate output with the bits leftover from a previous deflate stream when appending to it. As such, this function can only be used for raw deflate, and must be used before the first deflate() call after a deflateInit2() or deflateReset(). bits must be less than or equal to 16, and that many of the least significant bits of value will be inserted in the output.

deflatePrime returns Z\_OK if success, Z\_BUF\_ERROR if there was not enough room in the internal buffer to insert the bits, or Z\_STREAM\_ERROR if the source stream state was inconsistent.

\*/

```
ZEXTERN int ZEXPORT deflateSetHeader OF((z_streamp strm,
                                        gz_headerp head));
```

/\*

deflateSetHeader() provides gzip header information for when a gzip stream is requested by deflateInit2(). deflateSetHeader() may be called after deflateInit2() or deflateReset() and before the first call of deflate(). The text, time, os, extra field, name, and comment information in the provided gz\_header structure are written to the gzip header (xflag is ignored -- the extra flags are set according to the compression level). The caller must assure that, if not Z\_NULL, name and comment are terminated with a zero byte, and that if extra is not Z\_NULL, that extra\_len bytes are available there. If hcrc is true, a gzip header crc is included. Note that the current versions of the command-line version of gzip (up through version 1.3.x) do not support header crc's, and will report that it is a "multi-part gzip file" and give up.

If deflateSetHeader is not used, the default gzip header has text false, the time set to zero, and os set to 255, with no extra, name, or comment fields. The gzip header is returned to the default state by deflateReset().

deflateSetHeader returns Z\_OK if success, or Z\_STREAM\_ERROR if the source stream state was inconsistent.

\*/

/\*

```
ZEXTERN int ZEXPORT inflateInit2 OF((z_streamp strm,
                                     int windowBits));
```

This is another version of inflateInit with an extra parameter. The fields next\_in, avail\_in, zalloc, zfree and opaque must be initialized before by the caller.

The windowBits parameter is the base two logarithm of the maximum window size (the size of the history buffer). It should be in the range 8..15 for this version of the library. The default value is 15 if inflateInit is used instead. windowBits must be greater than or equal to the windowBits value provided to deflateInit2() while compressing, or it must be equal to 15 if deflateInit2() was not used. If a compressed stream with a larger window size is given as input, inflate() will return with the error code Z\_DATA\_ERROR instead of trying to allocate a larger window.

windowBits can also be zero to request that inflate use the window size in



the zlib header of the compressed stream.

windowBits can also be -8..-15 for raw inflate. In this case, -windowBits determines the window size. inflate() will then process raw deflate data, not looking for a zlib or gzip header, not generating a check value, and not looking for any check values for comparison at the end of the stream. This is for use with other formats that use the deflate compressed data format such as zip. Those formats provide their own check values. If a custom format is developed using the raw deflate format for compressed data, it is recommended that a check value such as an Adler32 or a CRC32 be applied to the uncompressed data as is done in the zlib, gzip, and zip formats. For most applications, the zlib format should be used as is. Note that comments above on the use in deflateInit2() applies to the magnitude of windowBits.

windowBits can also be greater than 15 for optional gzip decoding. Add 32 to windowBits to enable zlib and gzip decoding with automatic header detection, or add 16 to decode only the gzip format (the zlib format will return a Z\_DATA\_ERROR). If a gzip stream is being decoded, strm->adler is a CRC32 instead of an Adler32.

inflateInit2 returns Z\_OK if success, Z\_MEM\_ERROR if there was not enough memory, Z\_VERSION\_ERROR if the zlib library version is incompatible with the version assumed by the caller, or Z\_STREAM\_ERROR if the parameters are invalid, such as a null pointer to the structure. msg is set to null if there is no error message. inflateInit2 does not perform any decompression apart from possibly reading the zlib header if present: actual decompression will be done by inflate(). (So next\_in and avail\_in may be modified, but next\_out and avail\_out are unused and unchanged.) The current implementation of inflateInit2() does not process any header information -- that is deferred until inflate() is called.

\*/

```
ZEXTERN int ZEXPORT inflateSetDictionary OF((z_streamp strm,
      const Bytef *dictionary,
      uInt dictLength));
```

/\*

Initializes the decompression dictionary from the given uncompressed byte sequence. This function must be called immediately after a call of inflate, if that call returned Z\_NEED\_DICT. The dictionary chosen by the compressor can be determined from the Adler32 value returned by that call of inflate. The compressor and decompressor must use exactly the same dictionary (see deflateSetDictionary). For raw inflate, this function can be called at any time to set the dictionary. If the provided dictionary is smaller than the window and there is already data in the window, then the provided dictionary will amend what's there. The application must insure that the dictionary that was used for compression is provided.

inflateSetDictionary returns Z\_OK if success, Z\_STREAM\_ERROR if a

parameter is invalid (e.g. dictionary being Z\_NULL) or the stream state is inconsistent, Z\_DATA\_ERROR if the given dictionary doesn't match the expected one (incorrect Adler32 value). inflateSetDictionary does not perform any decompression: this will be done by subsequent calls of inflate().

\*/

```
ZEXTERN int ZEXPORT inflateSync OF((z_streamp strm));
```

/\*

Skips invalid compressed data until a possible full flush point (see above for the description of deflate with Z\_FULL\_FLUSH) can be found, or until all available input is skipped. No output is provided.

inflateSync searches for a 00 00 FF FF pattern in the compressed data. All full flush points have this pattern, but not all occurrences of this pattern are full flush points.

inflateSync returns Z\_OK if a possible full flush point has been found, Z\_BUF\_ERROR if no more input was provided, Z\_DATA\_ERROR if no flush point has been found, or Z\_STREAM\_ERROR if the stream structure was inconsistent. In the success case, the application may save the current value of total\_in which indicates where valid compressed data was found. In the error case, the application may repeatedly call inflateSync, providing more input each time, until success or end of the input data.

\*/

```
ZEXTERN int ZEXPORT inflateCopy OF((z_streamp dest,  
                                     z_streamp source));
```

/\*

Sets the destination stream as a complete copy of the source stream.

This function can be useful when randomly accessing a large stream. The first pass through the stream can periodically record the inflate state, allowing restarting inflate at those points when randomly accessing the stream.

inflateCopy returns Z\_OK if success, Z\_MEM\_ERROR if there was not enough memory, Z\_STREAM\_ERROR if the source stream state was inconsistent (such as zalloc being Z\_NULL). msg is left unchanged in both source and destination.

\*/

```
ZEXTERN int ZEXPORT inflateReset OF((z_streamp strm));
```

/\*

This function is equivalent to inflateEnd followed by inflateInit, but does not free and reallocate all the internal decompression state. The stream will keep attributes that may have been set by inflateInit2.

inflateReset returns Z\_OK if success, or Z\_STREAM\_ERROR if the source stream state was inconsistent (such as zalloc or state being Z\_NULL).

\*/

```
ZEXTERN int ZEXPORT inflateReset2 OF((z_stream* strm,  
                                     int windowBits));
```

/\*

This function is the same as inflateReset, but it also permits changing the wrap and window size requests. The windowBits parameter is interpreted the same as it is for inflateInit2.

inflateReset2 returns Z\_OK if success, or Z\_STREAM\_ERROR if the source stream state was inconsistent (such as zalloc or state being Z\_NULL), or if the windowBits parameter is invalid.

\*/

```
ZEXTERN int ZEXPORT inflatePrime OF((z_stream* strm,  
                                     int bits,  
                                     int value));
```

/\*

This function inserts bits in the inflate input stream. The intent is that this function is used to start inflating at a bit position in the middle of a byte. The provided bits will be used before any bytes are used from next\_in. This function should only be used with raw inflate, and should be used before the first inflate() call after inflateInit2() or inflateReset(). bits must be less than or equal to 16, and that many of the least significant bits of value will be inserted in the input.

If bits is negative, then the input stream bit buffer is emptied. Then inflatePrime() can be called again to put bits in the buffer. This is used to clear out bits leftover after feeding inflate a block description prior to feeding inflate codes.

inflatePrime returns Z\_OK if success, or Z\_STREAM\_ERROR if the source stream state was inconsistent.

\*/

```
ZEXTERN long ZEXPORT inflateMark OF((z_stream* strm));
```

/\*

This function returns two values, one in the lower 16 bits of the return value, and the other in the remaining upper bits, obtained by shifting the return value down 16 bits. If the upper value is -1 and the lower value is zero, then inflate() is currently decoding information outside of a block. If the upper value is -1 and the lower value is non-zero, then inflate is in the middle of a stored block, with the lower value equaling the number of bytes from the input remaining to copy. If the upper value is not -1, then it is the number of bits back from the current bit position in the input of the code (literal or length/distance pair) currently being processed. In

that case the lower value is the number of bytes already emitted for that code.

A code is being processed if inflate is waiting for more input to complete decoding of the code, or if it has completed decoding but is waiting for more output space to write the literal or match data.

inflateMark() is used to mark locations in the input data for random access, which may be at bit positions, and to note those cases where the output of a code may span boundaries of random access blocks. The current location in the input stream can be determined from avail\_in and data\_type as noted in the description for the Z\_BLOCK flush parameter for inflate.

inflateMark returns the value noted above or -1 << 16 if the provided source stream state was inconsistent.

\*/

```
ZEXTERN int ZEXPORT inflateGetHeader OF((z_streamp strm,
                                         gz_headerp head));
```

/\*

inflateGetHeader() requests that gzip header information be stored in the provided gz\_header structure. inflateGetHeader() may be called after inflateInit2() or inflateReset(), and before the first call of inflate().

As inflate() processes the gzip stream, head->done is zero until the header is completed, at which time head->done is set to one. If a zlib stream is being decoded, then head->done is set to -1 to indicate that there will be no gzip header information forthcoming. Note that Z\_BLOCK or Z\_TREES can be used to force inflate() to return immediately after header processing is complete and before any actual data is decompressed.

The text, time, xflags, and os fields are filled in with the gzip header contents. hcrc is set to true if there is a header CRC. (The header CRC was valid if done is set to one.) If extra is not Z\_NULL, then extra\_max contains the maximum number of bytes to write to extra. Once done is true, extra\_len contains the actual extra field length, and extra contains the extra field, or that field truncated if extra\_max is less than extra\_len. If name is not Z\_NULL, then up to name\_max characters are written there, terminated with a zero unless the length is greater than name\_max. If comment is not Z\_NULL, then up to comm\_max characters are written there, terminated with a zero unless the length is greater than comm\_max. When any of extra, name, or comment are not Z\_NULL and the respective field is not present in the header, then that field is set to Z\_NULL to signal its absence. This allows the use of deflateSetHeader() with the returned structure to duplicate the header. However if those fields are set to allocated memory, then the application will need to save those pointers elsewhere so that they can be eventually freed.

If inflateGetHeader is not used, then the header information is simply

discarded. The header is always checked for validity, including the header CRC if present. `inflateReset()` will reset the process to discard the header information. The application would need to call `inflateGetHeader()` again to retrieve the header from the next gzip stream.

`inflateGetHeader` returns `Z_OK` if success, or `Z_STREAM_ERROR` if the source stream state was inconsistent.

\*/

/\*

```
ZEXTERN int ZEXPORT inflateBackInit OF((z_streamp strm, int windowBits,
                                       unsigned char FAR *window));
```

Initialize the internal stream state for decompression using `inflateBack()` calls. The fields `zalloc`, `zfree` and `opaque` in `strm` must be initialized before the call. If `zalloc` and `zfree` are `Z_NULL`, then the default library-derived memory allocation routines are used. `windowBits` is the base two logarithm of the window size, in the range 8..15. `window` is a caller supplied buffer of that size. Except for special applications where it is assured that deflate was used with small window sizes, `windowBits` must be 15 and a 32K byte window must be supplied to be able to decompress general deflate streams.

See `inflateBack()` for the usage of these routines.

`inflateBackInit` will return `Z_OK` on success, `Z_STREAM_ERROR` if any of the parameters are invalid, `Z_MEM_ERROR` if the internal state could not be allocated, or `Z_VERSION_ERROR` if the version of the library does not match the version of the header file.

\*/

```
typedef unsigned (*in_func) OF((void FAR *, unsigned char FAR * FAR *));
typedef int (*out_func) OF((void FAR *, unsigned char FAR *, unsigned));
```

```
ZEXTERN int ZEXPORT inflateBack OF((z_streamp strm,
                                    in_func in, void FAR *in_desc,
                                    out_func out, void FAR *out_desc));
```

/\*

`inflateBack()` does a raw inflate with a single call using a call-back interface for input and output. This is more efficient than `inflate()` for file i/o applications in that it avoids copying between the output and the sliding window by simply making the window itself the output buffer. This function trusts the application to not change the output buffer passed by the output function, at least until `inflateBack()` returns.

`inflateBackInit()` must be called first to allocate the internal state and to initialize the state with the user-provided window buffer.

`inflateBack()` may then be used multiple times to inflate a complete, raw

deflate stream with each call. `inflateBackEnd()` is then called to free the allocated state.

A raw deflate stream is one with no zlib or gzip header or trailer. This routine would normally be used in a utility that reads zip or gzip files and writes out uncompressed files. The utility would decode the header and process the trailer on its own, hence this routine expects only the raw deflate stream to decompress. This is different from the normal behavior of `inflate()`, which expects either a zlib or gzip header and trailer around the deflate stream.

`inflateBack()` uses two subroutines supplied by the caller that are then called by `inflateBack()` for input and output. `inflateBack()` calls those routines until it reads a complete deflate stream and writes out all of the uncompressed data, or until it encounters an error. The function's parameters and return types are defined above in the `in_func` and `out_func` typedefs. `inflateBack()` will call `in(in_desc, &buf)` which should return the number of bytes of provided input, and a pointer to that input in `buf`. If there is no input available, `in()` must return zero--`buf` is ignored in that case--and `inflateBack()` will return a buffer error. `inflateBack()` will call `out(out_desc, buf, len)` to write the uncompressed data `buf[0..len-1]`. `out()` should return zero on success, or non-zero on failure. If `out()` returns non-zero, `inflateBack()` will return with an error. Neither `in()` nor `out()` are permitted to change the contents of the window provided to `inflateBackInit()`, which is also the buffer that `out()` uses to write from. The length written by `out()` will be at most the window size. Any non-zero amount of input may be provided by `in()`.

For convenience, `inflateBack()` can be provided input on the first call by setting `strm->next_in` and `strm->avail_in`. If that input is exhausted, then `in()` will be called. Therefore `strm->next_in` must be initialized before calling `inflateBack()`. If `strm->next_in` is `Z_NULL`, then `in()` will be called immediately for input. If `strm->next_in` is not `Z_NULL`, then `strm->avail_in` must also be initialized, and then if `strm->avail_in` is not zero, input will initially be taken from `strm->next_in[0 .. strm->avail_in - 1]`.

The `in_desc` and `out_desc` parameters of `inflateBack()` is passed as the first parameter of `in()` and `out()` respectively when they are called. These descriptors can be optionally used to pass any information that the caller-supplied `in()` and `out()` functions need to do their job.

On return, `inflateBack()` will set `strm->next_in` and `strm->avail_in` to pass back any unused input that was provided by the last `in()` call. The return values of `inflateBack()` can be `Z_STREAM_END` on success, `Z_BUF_ERROR` if `in()` or `out()` returned an error, `Z_DATA_ERROR` if there was a format error in the deflate stream (in which case `strm->msg` is set to indicate the nature of the error), or `Z_STREAM_ERROR` if the stream was not properly initialized. In the case of `Z_BUF_ERROR`, an input or output error can be distinguished

using `strm->next_in` which will be `Z_NULL` only if `in()` returned an error. If `strm->next_in` is not `Z_NULL`, then the `Z_BUF_ERROR` was due to `out()` returning non-zero. (`in()` will always be called before `out()`, so `strm->next_in` is assured to be defined if `out()` returns non-zero.) Note that `inflateBack()` cannot return `Z_OK`.

\*/

ZEXTERN int ZEXPORT inflateBackEnd OF((z\_streamp strm));

/\*

All memory allocated by `inflateBackInit()` is freed.

`inflateBackEnd()` returns `Z_OK` on success, or `Z_STREAM_ERROR` if the stream state was inconsistent.

\*/

ZEXTERN uLong ZEXPORT zlibCompileFlags OF((void));

/\* Return flags indicating compile-time options.

Type sizes, two bits each, 00 = 16 bits, 01 = 32, 10 = 64, 11 = other:

- 1.0: size of `uInt`
- 3.2: size of `uLong`
- 5.4: size of `voidpf` (pointer)
- 7.6: size of `z_off_t`

Compiler, assembler, and debug options:

- 8: `DEBUG`
- 9: `ASMV` or `ASMINF` -- use ASM code
- 10: `ZLIB_WINAPI` -- exported functions use the `WINAPI` calling convention
- 11: 0 (reserved)

One-time table building (smaller code, but not thread-safe if true):

- 12: `BUILDFIXED` -- build static block decoding tables when needed
- 13: `DYNAMIC_CRC_TABLE` -- build CRC calculation tables when needed
- 14,15: 0 (reserved)

Library content (indicates missing functionality):

- 16: `NO_GZCOMPRESS` -- `gz*` functions cannot compress (to avoid linking deflate code when not needed)
- 17: `NO_GZIP` -- deflate can't write `gzip` streams, and inflate can't detect and decode `gzip` streams (to avoid linking `crc` code)
- 18-19: 0 (reserved)

Operation variations (changes in library functionality):

- 20: `PKZIP_BUG_WORKAROUND` -- slightly more permissive inflate
- 21: `FASTEST` -- deflate algorithm with only one, lowest compression level
- 22,23: 0 (reserved)

The `sprintf` variant used by `gzprintf` (zero is best):

24: 0 = vs\*, 1 = s\* -- 1 means limited to 20 arguments after the format  
25: 0 = \*nprintf, 1 = \*printf -- 1 means gzprintf() not secure!  
26: 0 = returns value, 1 = void -- 1 means inferred string length returned

Remainder:

27-31: 0 (reserved)

\*/

#ifndef Z\_SOLO

/\* utility functions \*/

/\*

The following utility functions are implemented on top of the basic stream-oriented functions. To simplify the interface, some default options are assumed (compression level and memory usage, standard memory allocation functions). The source code of these utility functions can be modified if you need special options.

\*/

```
ZEXTERN int ZEXPORT compress OF((Bytef *dest, uLongf *destLen,  
                                const Bytef *source, uLong sourceLen));
```

/\*

Compresses the source buffer into the destination buffer. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be at least the value returned by compressBound(sourceLen). Upon exit, destLen is the actual size of the compressed buffer.

compress returns Z\_OK if success, Z\_MEM\_ERROR if there was not enough memory, Z\_BUF\_ERROR if there was not enough room in the output buffer.

\*/

```
ZEXTERN int ZEXPORT compress2 OF((Bytef *dest, uLongf *destLen,  
                                 const Bytef *source, uLong sourceLen,  
                                 int level));
```

/\*

Compresses the source buffer into the destination buffer. The level parameter has the same meaning as in deflateInit. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be at least the value returned by compressBound(sourceLen). Upon exit, destLen is the actual size of the compressed buffer.

compress2 returns Z\_OK if success, Z\_MEM\_ERROR if there was not enough memory, Z\_BUF\_ERROR if there was not enough room in the output buffer, Z\_STREAM\_ERROR if the level parameter is invalid.



\*/

```
ZEXTERN uLong ZEXPORT compressBound OF((uLong sourceLen));
```

/\*

compressBound() returns an upper bound on the compressed size after compress() or compress2() on sourceLen bytes. It would be used before a compress() or compress2() call to allocate the destination buffer.

\*/

```
ZEXTERN int ZEXPORT uncompress OF((Bytef *dest, uLongf *destLen,  
const Bytef *source, uLong sourceLen));
```

/\*

Decompresses the source buffer into the destination buffer. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be large enough to hold the entire uncompressed data. (The size of the uncompressed data must have been saved previously by the compressor and transmitted to the decompressor by some mechanism outside the scope of this compression library.) Upon exit, destLen is the actual size of the uncompressed buffer.

uncompress returns Z\_OK if success, Z\_MEM\_ERROR if there was not enough memory, Z\_BUF\_ERROR if there was not enough room in the output buffer, or Z\_DATA\_ERROR if the input data was corrupted or incomplete. In the case where there is not enough room, uncompress() will fill the output buffer with the uncompressed data up to that point.

\*/

```
/* gzip file access functions */
```

/\*

This library supports reading and writing files in gzip (.gz) format with an interface similar to that of stdio, using the functions that start with "gz". The gzip format is different from the zlib format. gzip is a gzip wrapper, documented in RFC 1952, wrapped around a deflate stream.

\*/

```
typedef struct gzFile_s *gzFile; /* semi-opaque gzip file descriptor */
```

/\*

```
ZEXTERN gzFile ZEXPORT gzopen OF((const char *path, const char *mode));
```

Opens a gzip (.gz) file for reading or writing. The mode parameter is as in fopen ("rb" or "wb") but can also include a compression level ("wb9") or a strategy: 'f' for filtered data as in "wb6f", 'h' for Huffman-only compression as in "wb1h", 'R' for run-length encoding as in "wb1R", or 'F' for fixed code compression as in "wb9F". (See the description of deflateInit2 for more information about the strategy parameter.) 'T' will request transparent writing or appending with no compression and not using

the gzip format.

"a" can be used instead of "w" to request that the gzip stream that will be written be appended to the file. "+" will result in an error, since reading and writing to the same gzip file is not supported. The addition of "x" when writing will create the file exclusively, which fails if the file already exists. On systems that support it, the addition of "e" when reading or writing will set the flag to close the file on an `execve()` call.

These functions, as well as `gzip`, will read and decode a sequence of gzip streams in a file. The append function of `gzopen()` can be used to create such a file. (Also see `gzflush()` for another way to do this.) When appending, `gzopen` does not test whether the file begins with a gzip stream, nor does it look for the end of the gzip streams to begin appending. `gzopen` will simply append a gzip stream to the existing file.

`gzopen` can be used to read a file which is not in gzip format; in this case `gzread` will directly read from the file without decompression. When reading, this will be detected automatically by looking for the magic two-byte gzip header.

`gzopen` returns `NULL` if the file could not be opened, if there was insufficient memory to allocate the `gzFile` state, or if an invalid mode was specified (an 'r', 'w', or 'a' was not provided, or '+' was provided). `errno` can be checked to determine if the reason `gzopen` failed was that the file could not be opened.

\*/

```
ZEXTERN gzFile ZEXPORT gzdopen OF((int fd, const char *mode));
```

/\*

`gzdopen` associates a `gzFile` with the file descriptor `fd`. File descriptors are obtained from calls like `open`, `dup`, `creat`, `pipe` or `fileno` (if the file has been previously opened with `fopen`). The mode parameter is as in `gzopen`.

The next call of `gzclose` on the returned `gzFile` will also close the file descriptor `fd`, just like `fclose(fdopen(fd, mode))` closes the file descriptor `fd`. If you want to keep `fd` open, use `fd = dup(fd_keep); gz = gzdopen(fd, mode);`. The duplicated descriptor should be saved to avoid a leak, since `gzdopen` does not close `fd` if it fails. If you are using `fileno()` to get the file descriptor from a `FILE *`, then you will have to use `dup()` to avoid double-closing the file descriptor. Both `gzclose()` and `fclose()` will close the associated file descriptor, so they need to have different file descriptors.

`gzdopen` returns `NULL` if there was insufficient memory to allocate the `gzFile` state, if an invalid mode was specified (an 'r', 'w', or 'a' was not provided, or '+' was provided), or if `fd` is `-1`. The file descriptor is not used until the next `gz*` read, write, seek, or close operation, so `gzdopen`

will not detect if fd is invalid (unless fd is -1).

\*/

```
ZEXTERN int ZEXPORT gzbuffer OF((gzFile file, unsigned size));
```

/\*

Set the internal buffer size used by this library's functions. The default buffer size is 8192 bytes. This function must be called after `gzopen()` or `gzdopen()`, and before any other calls that read or write the file. The buffer memory allocation is always deferred to the first read or write. Two buffers are allocated, either both of the specified size when writing, or one of the specified size and the other twice that size when reading. A larger buffer size of, for example, 64K or 128K bytes will noticeably increase the speed of decompression (reading).

The new buffer size also affects the maximum length for `gzprintf()`.

`gzbuffer()` returns 0 on success, or -1 on failure, such as being called too late.

\*/

```
ZEXTERN int ZEXPORT gzsetparams OF((gzFile file, int level, int strategy));
```

/\*

Dynamically update the compression level or strategy. See the description of `deflateInit2` for the meaning of these parameters.

`gzsetparams` returns `Z_OK` if success, or `Z_STREAM_ERROR` if the file was not opened for writing.

\*/

```
ZEXTERN int ZEXPORT gzread OF((gzFile file, voidp buf, unsigned len));
```

/\*

Reads the given number of uncompressed bytes from the compressed file. If the input file is not in gzip format, `gzread` copies the given number of bytes into the buffer directly from the file.

After reaching the end of a gzip stream in the input, `gzread` will continue to read, looking for another gzip stream. Any number of gzip streams may be concatenated in the input file, and will all be decompressed by `gzread()`. If something other than a gzip stream is encountered after a gzip stream, that remaining trailing garbage is ignored (and no error is returned).

`gzread` can be used to read a gzip file that is being concurrently written. Upon reaching the end of the input, `gzread` will return with the available data. If the error code returned by `gzerror` is `Z_OK` or `Z_BUF_ERROR`, then `gzclearerr` can be used to clear the end of file indicator in order to permit `gzread` to be tried again. `Z_OK` indicates that a gzip stream was completed on the last `gzread`. `Z_BUF_ERROR` indicates that the input file ended in the middle of a gzip stream. Note that `gzread` does not return -1 in the event

of an incomplete gzip stream. This error is deferred until `gzclos`(`gzclos`()), which will return `Z_BUF_ERROR` if the last `gzread` ended in the middle of a gzip stream. Alternatively, `gzerror` can be used before `gzclos` to detect this case.

`gzread` returns the number of uncompressed bytes actually read, less than `len` for end of file, or -1 for error.

\*/

```
ZEXTERN int ZEXPORT gzwrite OF((gzFile file,
                                voidpc buf, unsigned len));
```

/\*

Writes the given number of uncompressed bytes into the compressed file. `gzwrite` returns the number of uncompressed bytes written or 0 in case of error.

\*/

```
ZEXTERN int ZEXPORTVA gzprintf Z_ARG((gzFile file, const char *format, ...));
```

/\*

Converts, formats, and writes the arguments to the compressed file under control of the format string, as in `fprintf`. `gzprintf` returns the number of uncompressed bytes actually written, or 0 in case of error. The number of uncompressed bytes written is limited to 8191, or one less than the buffer size given to `gzbuffer`(`gzbuffer`()). The caller should assure that this limit is not exceeded. If it is exceeded, then `gzprintf`(`gzprintf`()) will return an error (0) with nothing written. In this case, there may also be a buffer overflow with unpredictable consequences, which is possible only if `zlib` was compiled with the insecure functions `sprintf`(`sprintf`()) or `vsprintf`(`vsprintf`()) because the secure `snprintf`(`snprintf`()) or `vsnprintf`(`vsnprintf`()) functions were not available. This can be determined using `zlibCompileFlags`(`zlibCompileFlags`()).

\*/

```
ZEXTERN int ZEXPORT gzputs OF((gzFile file, const char *s));
```

/\*

Writes the given null-terminated string to the compressed file, excluding the terminating null character.

`gzputs` returns the number of characters written, or -1 in case of error.

\*/

```
ZEXTERN char * ZEXPORT gzgets OF((gzFile file, char *buf, int len));
```

/\*

Reads bytes from the compressed file until `len-1` characters are read, or a newline character is read and transferred to `buf`, or an end-of-file condition is encountered. If any characters are read or if `len == 1`, the string is terminated with a null character. If no characters are read due to an end-of-file or `len < 1`, then the buffer is left untouched.

gzgets returns buf which is a null-terminated string, or it returns NULL for end-of-file or in case of error. If there was an error, the contents at buf are indeterminate.

\*/

```
ZEXTERN int ZEXPORT gzputc OF((gzFile file, int c));
```

/\*

Writes c, converted to an unsigned char, into the compressed file. gzputc returns the value that was written, or -1 in case of error.

\*/

```
ZEXTERN int ZEXPORT gzgetc OF((gzFile file));
```

/\*

Reads one byte from the compressed file. gzgetc returns this byte or -1 in case of end of file or error. This is implemented as a macro for speed. As such, it does not do all of the checking the other functions do. I.e. it does not check to see if file is NULL, nor whether the structure file points to has been clobbered or not.

\*/

```
ZEXTERN int ZEXPORT gzungetc OF((int c, gzFile file));
```

/\*

Push one character back onto the stream to be read as the first character on the next read. At least one character of push-back is allowed. gzungetc() returns the character pushed, or -1 on failure. gzungetc() will fail if c is -1, and may fail if a character has been pushed but not read yet. If gzungetc is used immediately after gzopen or gzopen, at least the output buffer size of pushed characters is allowed. (See gzbuffer above.) The pushed character will be discarded if the stream is repositioned with gzseek() or gzrewind().

\*/

```
ZEXTERN int ZEXPORT gzflush OF((gzFile file, int flush));
```

/\*

Flushes all pending output into the compressed file. The parameter flush is as in the deflate() function. The return value is the zlib error number (see function gzerror below). gzflush is only permitted when writing.

If the flush parameter is Z\_FINISH, the remaining data is written and the gzip stream is completed in the output. If gzwrite() is called again, a new gzip stream will be started in the output. gzread() is able to read such concatenated gzip streams.

gzflush should be called only when strictly necessary because it will degrade compression if called too often.

\*/

/\*

```
ZEXTERN z_off_t ZEXPORT gzseek OF((gzFile file,
    z_off_t offset, int whence));
```

Sets the starting position for the next gzread or gzwrite on the given compressed file. The offset represents a number of bytes in the uncompressed data stream. The whence parameter is defined as in lseek(2); the value SEEK\_END is not supported.

If the file is opened for reading, this function is emulated but can be extremely slow. If the file is opened for writing, only forward seeks are supported; gzseek then compresses a sequence of zeroes up to the new starting position.

gzseek returns the resulting offset location as measured in bytes from the beginning of the uncompressed stream, or -1 in case of error, in particular if the file is opened for writing and the new starting position would be before the current position.

```
*/
```

```
ZEXTERN int ZEXPORT gzrewind OF((gzFile file));
```

```
/*
```

Rewinds the given file. This function is supported only for reading.

gzrewind(file) is equivalent to (int)gzseek(file, 0L, SEEK\_SET)

```
*/
```

```
/*
```

```
ZEXTERN z_off_t ZEXPORT gztell OF((gzFile file));
```

Returns the starting position for the next gzread or gzwrite on the given compressed file. This position represents a number of bytes in the uncompressed data stream, and is zero when starting, even if appending or reading a gzip stream from the middle of a file using gzdopen().

gztell(file) is equivalent to gzseek(file, 0L, SEEK\_CUR)

```
*/
```

```
/*
```

```
ZEXTERN z_off_t ZEXPORT gzoffset OF((gzFile file));
```

Returns the current offset in the file being read or written. This offset includes the count of bytes that precede the gzip stream, for example when appending or when using gzdopen() for reading. When reading, the offset does not include as yet unused buffered input. This information can be used for a progress indicator. On error, gzoffset() returns -1.

```
*/
```

```
ZEXTERN int ZEXPORT gzeof OF((gzFile file));
```

/\*

Returns true (1) if the end-of-file indicator has been set while reading, false (0) otherwise. Note that the end-of-file indicator is set only if the read tried to go past the end of the input, but came up short. Therefore, just like feof(), gzeof() may return false even if there is no more data to read, in the event that the last read request was for the exact number of bytes remaining in the input file. This will happen if the input file size is an exact multiple of the buffer size.

If gzeof() returns true, then the read functions will return no more data, unless the end-of-file indicator is reset by gzclearerr() and the input file has grown since the previous end of file was detected.

\*/

ZEXTERN int ZEXPORT gzdirect OF((gzFile file));

/\*

Returns true (1) if file is being copied directly while reading, or false (0) if file is a gzip stream being decompressed.

If the input file is empty, gzdirect() will return true, since the input does not contain a gzip stream.

If gzdirect() is used immediately after gzopen() or gzdopen() it will cause buffers to be allocated to allow reading the file to determine if it is a gzip file. Therefore if gzbuffer() is used, it should be called before gzdirect().

When writing, gzdirect() returns true (1) if transparent writing was requested ("wT" for the gzopen() mode), or false (0) otherwise. (Note: gzdirect() is not needed when writing. Transparent writing must be explicitly requested, so the application already knows the answer. When linking statically, using gzdirect() will include all of the zlib code for gzip file reading and decompression, which may not be desired.)

\*/

ZEXTERN int ZEXPORT gzclose OF((gzFile file));

/\*

Flushes all pending output if necessary, closes the compressed file and deallocates the (de)compression state. Note that once file is closed, you cannot call gzerror with file, since its structures have been deallocated. gzclose must not be called more than once on the same file, just as free must not be called more than once on the same allocation.

gzclose will return Z\_STREAM\_ERROR if file is not valid, Z\_ERRNO on a file operation error, Z\_MEM\_ERROR if out of memory, Z\_BUF\_ERROR if the last read ended in the middle of a gzip stream, or Z\_OK on success.

\*/

```

ZEXTERN int ZEXPORT gzclose_r OF((gzFile file));
ZEXTERN int ZEXPORT gzclose_w OF((gzFile file));
/*
    Same as gzclose(), but gzclose_r() is only for use when reading, and
    gzclose_w() is only for use when writing or appending. The advantage to
    using these instead of gzclose() is that they avoid linking in zlib
    compression or decompression code that is not used when only reading or only
    writing respectively. If gzclose() is used, then both compression and
    decompression code will be included the application when linking to a static
    zlib library.
*/

ZEXTERN const char * ZEXPORT gzerror OF((gzFile file, int *errnum));
/*
    Returns the error message for the last error which occurred on the given
    compressed file. errnum is set to zlib error number. If an error occurred
    in the file system and not in the compression library, errnum is set to
    Z_ERRNO and the application may consult errno to get the exact error code.

    The application must not modify the returned string. Future calls to
    this function may invalidate the previously returned string. If file is
    closed, then the string previously returned by gzerror will no longer be
    available.

    gzerror() should be used to distinguish errors from end-of-file for those
    functions above that do not distinguish those cases in their return values.
*/

ZEXTERN void ZEXPORT gzclearerr OF((gzFile file));
/*
    Clears the error and end-of-file flags for file. This is analogous to the
    clearerr() function in stdio. This is useful for continuing to read a gzip
    file that is being written concurrently.
*/

#endif /* !Z_SOLO */

        /* checksum functions */

/*
    These functions are not related to compression but are exported
    anyway because they might be useful in applications using the compression
    library.
*/

ZEXTERN uLong ZEXPORT Adler32 OF((uLong Adler, const Bytef *buf, uInt len));
/*
    Update a running Adler-32 checksum with the bytes buf[0..len-1] and

```



return the updated checksum. If buf is Z\_NULL, this function returns the required initial value for the checksum.

An Adler-32 checksum is almost as reliable as a CRC32 but can be computed much faster.

Usage example:

```
uLong Adler = Adler32(0L, Z_NULL, 0);

while (read_buffer(buffer, length) != EOF) {
    Adler = Adler32(Adler, buffer, length);
}
if (Adler != original_Adler) error();
*/

/*
ZEXTERN uLong ZEXPORT Adler32_combine OF((uLong Adler1, uLong Adler2,
                                         z_off_t len2));
```

Combine two Adler-32 checksums into one. For two sequences of bytes, seq1 and seq2 with lengths len1 and len2, Adler-32 checksums were calculated for each, Adler1 and Adler2. Adler32\_combine() returns the Adler-32 checksum of seq1 and seq2 concatenated, requiring only Adler1, Adler2, and len2. Note that the z\_off\_t type (like off\_t) is a signed integer. If len2 is negative, the result has no meaning or utility.

```
*/

ZEXTERN uLong ZEXPORT Crc32 OF((uLong Crc, const Bytef *buf, uInt len));
/*
```

Update a running CRC-32 with the bytes buf[0..len-1] and return the updated CRC-32. If buf is Z\_NULL, this function returns the required initial value for the CRC. Pre- and post-conditioning (one's complement) is performed within this function so it shouldn't be done by the application.

Usage example:

```
uLong Crc = Crc32(0L, Z_NULL, 0);

while (read_buffer(buffer, length) != EOF) {
    Crc = Crc32(Crc, buffer, length);
}
if (Crc != original_Crc) error();
*/

/*
ZEXTERN uLong ZEXPORT Crc32_combine OF((uLong Crc1, uLong Crc2, z_off_t len2));
```

Combine two CRC-32 check values into one. For two sequences of bytes, seq1 and seq2 with lengths len1 and len2, CRC-32 check values were calculated for each, crc1 and crc2. crc32\_combine() returns the CRC-32 check value of seq1 and seq2 concatenated, requiring only crc1, crc2, and len2.

\*/

/\* various hacks, don't look :) \*/

/\* deflateInit and inflateInit are macros to allow checking the zlib version

\* and the compiler's view of z\_stream:

\*/

```
ZEXTERN int ZEXPORT deflateInit_OF((z_stream* strm, int level,
                                   const char *version, int stream_size));
ZEXTERN int ZEXPORT inflateInit_OF((z_stream* strm,
                                   const char *version, int stream_size));
ZEXTERN int ZEXPORT deflateInit2_OF((z_stream* strm, int level, int method,
                                   int windowBits, int memLevel,
                                   int strategy, const char *version,
                                   int stream_size));
ZEXTERN int ZEXPORT inflateInit2_OF((z_stream* strm, int windowBits,
                                   const char *version, int stream_size));
ZEXTERN int ZEXPORT inflateBackInit_OF((z_stream* strm, int windowBits,
                                       unsigned char FAR *window,
                                       const char *version,
                                       int stream_size));

#define deflateInit(strm, level) \
    deflateInit_((strm), (level), ZLIB_VERSION, (int)sizeof(z_stream))
#define inflateInit(strm) \
    inflateInit_((strm), ZLIB_VERSION, (int)sizeof(z_stream))
#define deflateInit2(strm, level, method, windowBits, memLevel, strategy) \
    deflateInit2_((strm),(level),(method),(windowBits),(memLevel),\
                 (strategy), ZLIB_VERSION, (int)sizeof(z_stream))
#define inflateInit2(strm, windowBits) \
    inflateInit2_((strm), (windowBits), ZLIB_VERSION, \
                 (int)sizeof(z_stream))
#define inflateBackInit(strm, windowBits, window) \
    inflateBackInit_((strm), (windowBits), (window), \
                    ZLIB_VERSION, (int)sizeof(z_stream))
```

#ifndef Z\_SOLO

/\* gzgetc() macro and its supporting function and exposed data structure. Note

\* that the real internal state is much larger than the exposed structure.

\* This abbreviated structure exposes just enough for the gzgetc() macro. The

\* user should not mess with these exposed elements, since their names or

\* behavior could change in the future, perhaps even capriciously. They can

```

* only be used by the gzgetc() macro. You have been warned.
*/
struct gzFile_s {
    unsigned have;
    unsigned char *next;
    z_off64_t pos;
};
ZEXTERN int ZEXPORT gzgetc_OF((gzFile file)); /* backward compatibility */
#ifdef Z_PREFIX_SET
# undef z_gzgetc
# define z_gzgetc(g) \
    ((g)->have ? ((g)->have--, (g)->pos++, *((g)->next)++) : gzgetc(g))
#else
# define gzgetc(g) \
    ((g)->have ? ((g)->have--, (g)->pos++, *((g)->next)++) : gzgetc(g))
#endif

/* provide 64-bit offset functions if _LARGEFILE64_SOURCE defined, and/or
* change the regular functions to 64 bits if _FILE_OFFSET_BITS is 64 (if
* both are true, the application gets the *64 functions, and the regular
* functions are changed to 64 bits) -- in case these are set on systems
* without large file support, _LFS64_LARGEFILE must also be true
*/
#ifdef Z_LARGE64
    ZEXTERN gzFile ZEXPORT gzopen64 OF((const char *, const char *));
    ZEXTERN z_off64_t ZEXPORT gzseek64 OF((gzFile, z_off64_t, int));
    ZEXTERN z_off64_t ZEXPORT gztell64 OF((gzFile));
    ZEXTERN z_off64_t ZEXPORT gzoffset64 OF((gzFile));
    ZEXTERN uLong ZEXPORT Adler32_combine64 OF((uLong, uLong, z_off64_t));
    ZEXTERN uLong ZEXPORT Crc32_combine64 OF((uLong, uLong, z_off64_t));
#endif

#if !defined(ZLIB_INTERNAL) && defined(Z_WANT64)
# ifdef Z_PREFIX_SET
#   define z_gzopen z_gzopen64
#   define z_gzseek z_gzseek64
#   define z_gztell z_gztell64
#   define z_gzoffset z_gzoffset64
#   define z_adler32_combine z_adler32_combine64
#   define z_crc32_combine z_crc32_combine64
# else
#   define gzopen gzopen64
#   define gzseek gzseek64
#   define gztell gztell64
#   define gzoffset gzoffset64
#   define Adler32_combine Adler32_combine64
#   define Crc32_combine Crc32_combine64
# endif
#endif

```

```

# ifndef Z_LARGE64
    ZEXTERN gzFile ZEXPORT gzopen64 OF((const char *, const char *));
    ZEXTERN z_off_t ZEXPORT gzseek64 OF((gzFile, z_off_t, int));
    ZEXTERN z_off_t ZEXPORT gztell64 OF((gzFile));
    ZEXTERN z_off_t ZEXPORT gzoffset64 OF((gzFile));
    ZEXTERN uLong ZEXPORT Adler32_combine64 OF((uLong, uLong, z_off_t));
    ZEXTERN uLong ZEXPORT crc32_combine64 OF((uLong, uLong, z_off_t));
# endif
#else
    ZEXTERN gzFile ZEXPORT gzopen OF((const char *, const char *));
    ZEXTERN z_off_t ZEXPORT gzseek OF((gzFile, z_off_t, int));
    ZEXTERN z_off_t ZEXPORT gztell OF((gzFile));
    ZEXTERN z_off_t ZEXPORT gzoffset OF((gzFile));
    ZEXTERN uLong ZEXPORT Adler32_combine OF((uLong, uLong, z_off_t));
    ZEXTERN uLong ZEXPORT crc32_combine OF((uLong, uLong, z_off_t));
#endif

/* else /* Z_SOLO */

    ZEXTERN uLong ZEXPORT Adler32_combine OF((uLong, uLong, z_off_t));
    ZEXTERN uLong ZEXPORT crc32_combine OF((uLong, uLong, z_off_t));

#endif /* !Z_SOLO */

/* hack for buggy compilers */
#if !defined(ZUTIL_H) && !defined(NO_DUMMY_DECL)
    struct internal_state {int dummy;};
#endif

/* undocumented functions */
ZEXTERN const char * ZEXPORT zError      OF((int));
ZEXTERN int          ZEXPORT inflateSyncPoint OF((z_streamp));
ZEXTERN const z_crc_t FAR * ZEXPORT get_crc_table  OF((void));
ZEXTERN int          ZEXPORT inflateUndermine OF((z_streamp, int));
ZEXTERN int          ZEXPORT inflateResetKeep OF((z_streamp));
ZEXTERN int          ZEXPORT deflateResetKeep OF((z_streamp));
#if defined(_WIN32) && !defined(Z_SOLO)
ZEXTERN gzFile      ZEXPORT gzopen_w OF((const wchar_t *path,
                                         const char *mode));
#endif

#ifdef __cplusplus
}
#endif

#endif /* ZLIB_H */

```

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