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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.12 is a general purpose data compression library. All the code is thread safe. 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).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.12 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/> .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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Bit Twiddling Hacks

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

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

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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*
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* jQuery Validation Plugin 1.11.1

```



```

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- Respond.mini

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- QRCode for Javascript library

/**

* @fileoverview

* - Using the 'QRCode for Javascript library'

* - Fixed dataset of 'QRCode for Javascript library' for support full-spec.

```

* - this library has no dependencies.
*
* @author davidshimjs
* @see <a href="http://www.d-project.com/" target="_blank">http://www.d-project.com/</a>
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```

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    Colorbox 1.6.4
    license: MIT
    http://www.jacklmoore.com/colorbox
*/
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```

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```

- jQuery.Easing
/*
* jQuery Easing v1.3 - http://gsgd.co.uk/sandbox/jquery/easing/
*

```

- * Uses the built in easing capabilities added In jQuery 1.1
- * to offer multiple easing options
- *
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/**
 * bxSlider v4.2.1d
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 * Licensed under MIT (http://opensource.org/licenses/MIT)
 */
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```

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 *
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The data format used by the zlib library is described by RFCs (Request for
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Iperf performance test

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 * Rob Earhart
 * Rob Siemborski
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-- \$Id: README,v 1.23 2006/04/22 22:19:37 tom Exp \$

README file for the ncurses package

See the file ANNOUNCE for a summary of ncurses features and ports.
See the file INSTALL for instructions on how to build and install ncurses.
See the file NEWS for a release history and bug-fix notes.
See the file TO-DO for things that still need doing, including known bugs.

Browse the file misc/ncurses-intro.html for narrative descriptions of how
to use ncurses and the panel, menu, and form libraries.

Browse the file doc/html/hackguide.html for a tour of the package internals.

ROADMAP AND PACKAGE OVERVIEW:

You should be reading this file in a directory called: ncurses-d.d, where d.d
is the current version number (see the dist.mk file in this directory for
that). There should be a number of subdirectories, including `c++', `form',
`man', `menu', `misc', `ncurses', `panel', `progs', `test', `tack' and `Ada95'.
(The `tack' program may be distributed separately).

A full build/install of this package typically installs several libraries, a
handful of utilities, and a database hierarchy. Here is an inventory of the
pieces:

The libraries are:

libncurses.a	(normal)
libncurses.so	(shared)
libncurses_g.a	(debug and trace code enabled)
libncurses_p.a	(profiling enabled)
libpanel.a	(normal)
libpanel.so	(shared)
libpanel_g.a	(debug and trace code enabled)
libmenu.a	(normal)

libmenu.so	(shared)
libmenu_g.a	(debug enabled)
libform.a	(normal)
libform.so	(shared)
libform_g.a	(debug enabled)

If you configure using the `--enable-widex` option, a "w" is appended to the library names (e.g., `libncursesw.a`), and the resulting libraries support wide-characters, e.g., via a UTF-8 locale. The corresponding header files are compatible with the non-wide-character configuration; wide-character features are provided by `ifdef`'s in the header files. The wide-character library interfaces are not binary-compatible with the non-wide-character version.

The ncurses libraries implement the curses API. The panel, menu and forms libraries implement clones of the SVr4 panel, menu and forms APIs. The source code for these lives in the ``ncurses'`, ``panel'`, ``menu'`, and ``form'` directories respectively.

In the ``c++'` directory, you'll find code that defines an interface to the curses, forms, menus and panels library packaged as C++ classes, and a demo program in C++ to test it. These class definition modules are not installed by the `'make install.libs'` rule as `libncurses++`.

In the ``Ada95'` directory, you'll find code and documentation for an Ada95 binding of the curses API, to be used with the GNAT compiler. This binding is built by a normal top-level ``make'` if configure detects an usable version of GNAT (3.11 or above). It is not installed automatically. See the Ada95 directory for more build and installation instructions and for documentation of the binding.

To do its job, the ncurses code needs your terminal type to be set in the environment variable `TERM` (normally set by your OS; under UNIX, `getty(1)` typically does this, but you can override it in your `.profile`); and, it needs a database of terminal descriptions in which to look up your terminal type's capabilities.

In older (V7/BSD) versions of curses, the database was a flat text file, `/etc/termcap`; in newer (USG/USL) versions, the database is a hierarchy of fast-loading binary description blocks under `/usr/lib/terminfo`. These binary blocks are compiled from an improved editable text representation called ``terminfo'` format (documented in `man/terminfo.5`). The ncurses library can use either `/etc/termcap` or the compiled binary terminfo blocks, but prefers the second form.

In the ``misc'` directory, there is a text file `terminfo.src`, in editable terminfo format, which can be used to generate the terminfo binaries (that's what `make install.data` does). If the package was built with the `--enable-termcap` option enabled, and the ncurses library cannot find a terminfo description for your terminal, it will fall back to the termcap file supplied with your system (which the ncurses package installation leaves strictly alone).

The utilities are as follows:

tic	-- terminfo source to binary compiler
infocmp	-- terminfo binary to source decompiler/comparator
clear	-- emits clear-screen for current terminal
tput	-- shell-script access to terminal capabilities.
toe	-- table of entries utility
tset	-- terminal-initialization utility

The first two (tic and infocmp) are used for manipulating terminfo descriptions; the next two (clear and tput) are for use in shell scripts. The last (tset) is provided for 4.4BSD compatibility. The source code for all of these lives in the 'progs' directory.

Detailed documentation for all libraries and utilities can be found in the 'man' and 'doc' directories. An HTML introduction to ncurses, panels, and menus programming lives in the 'doc/html' directory. Manpages in HTML format are under 'doc/html/man'.

The 'test' directory contains programs that can be used to verify or demonstrate the functions of the ncurses libraries. See test/README for descriptions of these programs. Notably, the 'ncurses' utility is designed to help you systematically exercise the library functions.

AUTHORS:

Pavel Curtis:

wrote the original ncurses

Zeyd M. Ben-Halim:

port of original to Linux and many enhancements.

Thomas Dickey (maintainer for 1.9.9g through 4.1, resuming with FSF's 5.0):

configuration scripts, porting, mods to adhere to XSI Curses in the areas of background color, terminal modes. Also memory leak testing, the wresize, default colors and key definition extensions and numerous bug fixes (more than half of those enumerated in NEWS beginning with the internal release 1.8.9).

Florian La Roche (official maintainer for FSF's ncurses 4.2)

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Eric S. Raymond:

the man pages, infocmp(1), tput(1), clear(1), captinfo(1), tset(1), toe(1), most of tic(1), trace levels, the HTML intro, wgetnstr() and many other entry points, the cursor-movement optimization, the scroll-pack optimizer for vertical motions, the mouse interface and xterm mouse support, and the ncurses test program.

Juergen Pfeifer

The menu and form libraries, C++ bindings for ncurses, menus, forms and panels, as well as the Ada95 binding. Ongoing support for panel.

CONTRIBUTORS:

Alexander V. Lukyanov

for numerous fixes and improvements to the optimization logic.

David MacKenzie

for first-class bug-chasing and methodical testing.

Ross Ridge

for the code that hacks termcap parameterized strings into terminfo.

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for many patches and testing the optimization code.

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the C++ code.

Jonathan Ross,

for lessons in using sed.

Keith Bostic (maintainer of 4.4BSD curses)

for help, criticism, comments, bug-finding, and being willing to deep-six BSD curses for this one when it grew up.

Richard Stallman,

for his commitment to making ncurses free software.

Countless other people have contributed by reporting bugs, sending fixes, suggesting improvements, and generally whining about ncurses :-)

BUGS:

See the INSTALL file for bug and developer-list addresses.

The Hacker's Guide in the doc directory includes some guidelines on how to report bugs in ways that will get them fixed most quickly.

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```
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```

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```
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at assemblers) written by James Hacker.
```

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

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is espe

cially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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se or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good

d faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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Version 3.1, 31 March 2009

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```
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*
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*
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* 734.7(b).

*/

```

/*
 * 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).
 */

```

```

/*
 * The contributing authors would like to thank all those who helped
 * with testing, bug fixes, and patience. This wouldn't have been
 * possible without all of you.
 *
 * Thanks to Frank J. T. Wojcik for helping with the documentation.
 */

```

```

/* Note about libpng version numbers:

```

```

 *
 * Due to various miscommunications, unforeseen code incompatibilities
 * and occasional factors outside the authors' control, version numbering
 * on the library has not always been consistent and straightforward.
 * The following table summarizes matters since version 0.89c, which was
 * the first widely used release:

```

```

 *
 * source      png.h  png.h  shared-lib
 * version      string int  version
 * -----
 * 0.89c "1.0 beta 3"  0.89   89  1.0.89
 * 0.90 "1.0 beta 4"  0.90   90  0.90 [should have been 2.0.90]
 * 0.95 "1.0 beta 5"  0.95   95  0.95 [should have been 2.0.95]
 * 0.96 "1.0 beta 6"  0.96   96  0.96 [should have been 2.0.96]
 * 0.97b "1.0.97 beta 7" 1.00.97  97  1.0.1 [should have been 2.0.97]
 * 0.97c          0.97   97  2.0.97
 * 0.98          0.98   98  2.0.98
 * 0.99          0.99   98  2.0.99
 * 0.99a-m        0.99   99  2.0.99
 * 1.00          1.00  100  2.1.0 [100 should be 10000]
 * 1.0.0 (from here on, the 100  2.1.0 [100 should be 10000]
 * 1.0.1 png.h string is 10001 2.1.0
 * 1.0.1a-e identical to the 10002 from here on, the shared library
 * 1.0.2 source version) 10002 is 2.V where V is the source code
 * 1.0.2a-b          10003 version, except as noted.
 * 1.0.3            10003
 * 1.0.3a-d         10004
 * 1.0.4            10004
 * 1.0.4a-f         10005
 * 1.0.5 (+ 2 patches) 10005
 * 1.0.5a-d         10006
 * 1.0.5e-r         10100 (not source compatible)
 * 1.0.5s-v         10006 (not binary compatible)
 * 1.0.6 (+ 3 patches) 10006 (still binary incompatible)
 * 1.0.6d-f         10007 (still binary incompatible)

```

```

* 1.0.6g          10007
* 1.0.6h          10007 10.6h (testing xy.z so-numbering)
* 1.0.6i          10007 10.6i
* 1.0.6j          10007 2.1.0.6j (incompatible with 1.0.0)
* 1.0.7beta11-14  DLLNUM 10007 2.1.0.7beta11-14 (binary compatible)
* 1.0.7beta15-18   1 10007 2.1.0.7beta15-18 (binary compatible)
* 1.0.7rc1-2       1 10007 2.1.0.7rc1-2 (binary compatible)
* 1.0.7            1 10007 (still compatible)
* ...
* 1.0.19           10 10019 10.so.0.19[.0]
* ...
* 1.2.56           13 10256 12.so.0.56[.0]
* ...
* 1.5.27           15 10527 15.so.15.27[.0]
* ...
* 1.6.26           16 10626 16.so.16.26[.0]
*
* Henceforth the source version will match the shared-library major
* and minor numbers; the shared-library major version number will be
* used for changes in backward compatibility, as it is intended. The
* PNG_LIBPNG_VER macro, which is not used within libpng but is available
* for applications, is an unsigned integer of the form xyyzz corresponding
* to the source version x.y.z (leading zeros in y and z). Beta versions
* were given the previous public release number plus a letter, until
* version 1.0.6j; from then on they were given the upcoming public
* release number plus "betaNN" or "rcNN".
*
* Binary incompatibility exists only when applications make direct access
* to the info_ptr or png_ptr members through png.h, and the compiled
* application is loaded with a different version of the library.
*
* DLLNUM will change each time there are forward or backward changes
* in binary compatibility (e.g., when a new feature is added).
*
* See libpng.txt or libpng.3 for more information. The PNG specification
* is available as a W3C Recommendation and as an ISO Specification,
* <http://www.w3.org/TR/2003/REC-PNG-20031110/
*/

```

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 *
```

```

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*
* TODO:
* * show settings for all devices
*/

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/******

* Perl-Compatible Regular Expressions *

*****/

/* This is the public header file for the PCRE library, to be #included by
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It is currently maintained by Marco d'Itri <md@linux.it>.

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Iperf performance test

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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End

```
/* png.h - header file for PNG reference library
*
* libpng version 1.6.13 - August 21, 2014
* Copyright (c) 1998-2014 Glenn Randers-Pehrson
* (Version 0.96 Copyright (c) 1996, 1997 Andreas Dilger)
* (Version 0.88 Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.)
*
* This code is released under the libpng license (See LICENSE, below)
*
* Authors and maintainers:
* libpng versions 0.71, May 1995, through 0.88, January 1996: Guy Schalnat
* libpng versions 0.89c, June 1996, through 0.96, May 1997: Andreas Dilger
* libpng versions 0.97, January 1998, through 1.6.13 - August 21, 2014: Glenn
* See also "Contributing Authors", below.
*
* Note about libpng version numbers:
*
* Due to various miscommunications, unforeseen code incompatibilities
* and occasional factors outside the authors' control, version numbering
* on the library has not always been consistent and straightforward.
* The following table summarizes matters since version 0.89c, which was
* the first widely used release:
*
* source      png.h  png.h  shared-lib
* version      string int  version
* -----
* 0.89c "1.0 beta 3"  0.89   89  1.0.89
* 0.90 "1.0 beta 4"  0.90   90  0.90 [should have been 2.0.90]
* 0.95 "1.0 beta 5"  0.95   95  0.95 [should have been 2.0.95]
* 0.96 "1.0 beta 6"  0.96   96  0.96 [should have been 2.0.96]
* 0.97b "1.00.97 beta 7" 1.00.97  97  1.0.1 [should have been 2.0.97]
* 0.97c          0.97   97  2.0.97
* 0.98          0.98   98  2.0.98
* 0.99          0.99   98  2.0.99
* 0.99a-m        0.99   99  2.0.99
* 1.00          1.00  100  2.1.0 [100 should be 10000]
* 1.0.0 (from here on, the 100  2.1.0 [100 should be 10000]
* 1.0.1 png.h string is 10001 2.1.0
```

```

* 1.0.1a-e identical to the 10002 from here on, the shared library
* 1.0.2 source version) 10002 is 2.V where V is the source code
* 1.0.2a-b 10003 version, except as noted.
* 1.0.3 10003
* 1.0.3a-d 10004
* 1.0.4 10004
* 1.0.4a-f 10005
* 1.0.5 (+ 2 patches) 10005
* 1.0.5a-d 10006
* 1.0.5e-r 10100 (not source compatible)
* 1.0.5s-v 10006 (not binary compatible)
* 1.0.6 (+ 3 patches) 10006 (still binary incompatible)
* 1.0.6d-f 10007 (still binary incompatible)
* 1.0.6g 10007
* 1.0.6h 10007 10.6h (testing xy.z so-numbering)
* 1.0.6i 10007 10.6i
* 1.0.6j 10007 2.1.0.6j (incompatible with 1.0.0)
* 1.0.7beta11-14 DLLNUM 10007 2.1.0.7beta11-14 (binary compatible)
* 1.0.7beta15-18 1 10007 2.1.0.7beta15-18 (binary compatible)
* 1.0.7rc1-2 1 10007 2.1.0.7rc1-2 (binary compatible)
* 1.0.7 1 10007 (still compatible)
* 1.0.8beta1-4 1 10008 2.1.0.8beta1-4
* 1.0.8rc1 1 10008 2.1.0.8rc1
* 1.0.8 1 10008 2.1.0.8
* 1.0.9beta1-6 1 10009 2.1.0.9beta1-6
* 1.0.9rc1 1 10009 2.1.0.9rc1
* 1.0.9beta7-10 1 10009 2.1.0.9beta7-10
* 1.0.9rc2 1 10009 2.1.0.9rc2
* 1.0.9 1 10009 2.1.0.9
* 1.0.10beta1 1 10010 2.1.0.10beta1
* 1.0.10rc1 1 10010 2.1.0.10rc1
* 1.0.10 1 10010 2.1.0.10
* 1.0.11beta1-3 1 10011 2.1.0.11beta1-3
* 1.0.11rc1 1 10011 2.1.0.11rc1
* 1.0.11 1 10011 2.1.0.11
* 1.0.12beta1-2 2 10012 2.1.0.12beta1-2
* 1.0.12rc1 2 10012 2.1.0.12rc1
* 1.0.12 2 10012 2.1.0.12
* 1.1.0a-f - 10100 2.1.1.0a-f (branch abandoned)
* 1.2.0beta1-2 2 10200 3.1.2.0beta1-2
* 1.2.0beta3-5 3 10200 3.1.2.0beta3-5
* 1.2.0rc1 3 10200 3.1.2.0rc1
* 1.2.0 3 10200 3.1.2.0
* 1.2.1beta1-4 3 10201 3.1.2.1beta1-4
* 1.2.1rc1-2 3 10201 3.1.2.1rc1-2
* 1.2.1 3 10201 3.1.2.1
* 1.2.2beta1-6 12 10202 12.so.0.1.2.2beta1-6
* 1.0.13beta1 10 10013 10.so.0.1.0.13beta1
* 1.0.13rc1 10 10013 10.so.0.1.0.13rc1
* 1.2.2rc1 12 10202 12.so.0.1.2.2rc1
* 1.0.13 10 10013 10.so.0.1.0.13
* 1.2.2 12 10202 12.so.0.1.2.2
* 1.2.3rc1-6 12 10203 12.so.0.1.2.3rc1-6
* 1.2.3 12 10203 12.so.0.1.2.3

```

* 1.2.4beta1-3	13	10204	12.so.0.1.2.4beta1-3
* 1.0.14rc1	13	10014	10.so.0.1.0.14rc1
* 1.2.4rc1	13	10204	12.so.0.1.2.4rc1
* 1.0.14	10	10014	10.so.0.1.0.14
* 1.2.4	13	10204	12.so.0.1.2.4
* 1.2.5beta1-2	13	10205	12.so.0.1.2.5beta1-2
* 1.0.15rc1-3	10	10015	10.so.0.1.0.15rc1-3
* 1.2.5rc1-3	13	10205	12.so.0.1.2.5rc1-3
* 1.0.15	10	10015	10.so.0.1.0.15
* 1.2.5	13	10205	12.so.0.1.2.5
* 1.2.6beta1-4	13	10206	12.so.0.1.2.6beta1-4
* 1.0.16	10	10016	10.so.0.1.0.16
* 1.2.6	13	10206	12.so.0.1.2.6
* 1.2.7beta1-2	13	10207	12.so.0.1.2.7beta1-2
* 1.0.17rc1	10	10017	12.so.0.1.0.17rc1
* 1.2.7rc1	13	10207	12.so.0.1.2.7rc1
* 1.0.17	10	10017	12.so.0.1.0.17
* 1.2.7	13	10207	12.so.0.1.2.7
* 1.2.8beta1-5	13	10208	12.so.0.1.2.8beta1-5
* 1.0.18rc1-5	10	10018	12.so.0.1.0.18rc1-5
* 1.2.8rc1-5	13	10208	12.so.0.1.2.8rc1-5
* 1.0.18	10	10018	12.so.0.1.0.18
* 1.2.8	13	10208	12.so.0.1.2.8
* 1.2.9beta1-3	13	10209	12.so.0.1.2.9beta1-3
* 1.2.9beta4-11	13	10209	12.so.0.9[.0]
* 1.2.9rc1	13	10209	12.so.0.9[.0]
* 1.2.9	13	10209	12.so.0.9[.0]
* 1.2.10beta1-7	13	10210	12.so.0.10[.0]
* 1.2.10rc1-2	13	10210	12.so.0.10[.0]
* 1.2.10	13	10210	12.so.0.10[.0]
* 1.4.0beta1-5	14	10400	14.so.0.0[.0]
* 1.2.11beta1-4	13	10211	12.so.0.11[.0]
* 1.4.0beta7-8	14	10400	14.so.0.0[.0]
* 1.2.11	13	10211	12.so.0.11[.0]
* 1.2.12	13	10212	12.so.0.12[.0]
* 1.4.0beta9-14	14	10400	14.so.0.0[.0]
* 1.2.13	13	10213	12.so.0.13[.0]
* 1.4.0beta15-36	14	10400	14.so.0.0[.0]
* 1.4.0beta37-87	14	10400	14.so.14.0[.0]
* 1.4.0rc01	14	10400	14.so.14.0[.0]
* 1.4.0beta88-109	14	10400	14.so.14.0[.0]
* 1.4.0rc02-08	14	10400	14.so.14.0[.0]
* 1.4.0	14	10400	14.so.14.0[.0]
* 1.4.1beta01-03	14	10401	14.so.14.1[.0]
* 1.4.1rc01	14	10401	14.so.14.1[.0]
* 1.4.1beta04-12	14	10401	14.so.14.1[.0]
* 1.4.1	14	10401	14.so.14.1[.0]
* 1.4.2	14	10402	14.so.14.2[.0]
* 1.4.3	14	10403	14.so.14.3[.0]
* 1.4.4	14	10404	14.so.14.4[.0]
* 1.5.0beta01-58	15	10500	15.so.15.0[.0]
* 1.5.0rc01-07	15	10500	15.so.15.0[.0]
* 1.5.0	15	10500	15.so.15.0[.0]
* 1.5.1beta01-11	15	10501	15.so.15.1[.0]

* 1.5.1rc01-02 15 10501 15.so.15.1[.0]
* 1.5.1 15 10501 15.so.15.1[.0]
* 1.5.2beta01-03 15 10502 15.so.15.2[.0]
* 1.5.2rc01-03 15 10502 15.so.15.2[.0]
* 1.5.2 15 10502 15.so.15.2[.0]
* 1.5.3beta01-10 15 10503 15.so.15.3[.0]
* 1.5.3rc01-02 15 10503 15.so.15.3[.0]
* 1.5.3beta11 15 10503 15.so.15.3[.0]
* 1.5.3 [omitted]
* 1.5.4beta01-08 15 10504 15.so.15.4[.0]
* 1.5.4rc01 15 10504 15.so.15.4[.0]
* 1.5.4 15 10504 15.so.15.4[.0]
* 1.5.5beta01-08 15 10505 15.so.15.5[.0]
* 1.5.5rc01 15 10505 15.so.15.5[.0]
* 1.5.5 15 10505 15.so.15.5[.0]
* 1.5.6beta01-07 15 10506 15.so.15.6[.0]
* 1.5.6rc01-03 15 10506 15.so.15.6[.0]
* 1.5.6 15 10506 15.so.15.6[.0]
* 1.5.7beta01-05 15 10507 15.so.15.7[.0]
* 1.5.7rc01-03 15 10507 15.so.15.7[.0]
* 1.5.7 15 10507 15.so.15.7[.0]
* 1.6.0beta01-40 16 10600 16.so.16.0[.0]
* 1.6.0rc01-08 16 10600 16.so.16.0[.0]
* 1.6.0 16 10600 16.so.16.0[.0]
* 1.6.1beta01-09 16 10601 16.so.16.1[.0]
* 1.6.1rc01 16 10601 16.so.16.1[.0]
* 1.6.1 16 10601 16.so.16.1[.0]
* 1.6.2beta01 16 10602 16.so.16.2[.0]
* 1.6.2rc01-06 16 10602 16.so.16.2[.0]
* 1.6.2 16 10602 16.so.16.2[.0]
* 1.6.3beta01-11 16 10603 16.so.16.3[.0]
* 1.6.3rc01 16 10603 16.so.16.3[.0]
* 1.6.3 16 10603 16.so.16.3[.0]
* 1.6.4beta01-02 16 10604 16.so.16.4[.0]
* 1.6.4rc01 16 10604 16.so.16.4[.0]
* 1.6.4 16 10604 16.so.16.4[.0]
* 1.6.5 16 10605 16.so.16.5[.0]
* 1.6.6 16 10606 16.so.16.6[.0]
* 1.6.7beta01-04 16 10607 16.so.16.7[.0]
* 1.6.7rc01-03 16 10607 16.so.16.7[.0]
* 1.6.7 16 10607 16.so.16.7[.0]
* 1.6.8beta01-02 16 10608 16.so.16.8[.0]
* 1.6.8rc01-02 16 10608 16.so.16.8[.0]
* 1.6.8 16 10608 16.so.16.8[.0]
* 1.6.9beta01-04 16 10609 16.so.16.9[.0]
* 1.6.9rc01-02 16 10609 16.so.16.9[.0]
* 1.6.9 16 10609 16.so.16.9[.0]
* 1.6.10beta01-03 16 10610 16.so.16.10[.0]
* 1.6.10rc01-03 16 10610 16.so.16.10[.0]
* 1.6.10 16 10610 16.so.16.10[.0]
* 1.6.11beta01-06 16 10611 16.so.16.11[.0]
* 1.6.11rc01-02 16 10611 16.so.16.11[.0]
* 1.6.11 16 10611 16.so.16.11[.0]
* 1.6.12rc01-03 16 10612 16.so.16.12[.0]

```

* 1.6.12      16  10612  16.so.16.12[.0]
* 1.6.13beta01-04  16  10613  16.so.16.13[.0]
* 1.6.13rc01-02    16  10613  16.so.16.13[.0]
* 1.6.13      16  10613  16.so.16.13[.0]
*
* Henceforth the source version will match the shared-library major
* and minor numbers; the shared-library major version number will be
* used for changes in backward compatibility, as it is intended.  The
* PNG_LIBPNG_VER macro, which is not used within libpng but is available
* for applications, is an unsigned integer of the form xyyzz corresponding
* to the source version x.y.z (leading zeros in y and z).  Beta versions
* were given the previous public release number plus a letter, until
* version 1.0.6j; from then on they were given the upcoming public
* release number plus "betaNN" or "rcNN".
*
* Binary incompatibility exists only when applications make direct access
* to the info_ptr or png_ptr members through png.h, and the compiled
* application is loaded with a different version of the library.
*
* DLLNUM will change each time there are forward or backward changes
* in binary compatibility (e.g., when a new feature is added).
*
* See libpng-manual.txt or libpng.3 for more information.  The PNG
* specification is available as a W3C Recommendation and as an ISO
* Specification, <http://www.w3.org/TR/2003/REC-PNG-20031110/
*/

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```
/* serpent-decrypt.c
```

```
*
```

```
* The serpent block cipher.
```

```
*
```

```
* For more details on this algorithm, see the Serpent website at
```

```
* http://www.cl.cam.ac.uk/~rja14/serpent.html
```

```
*/
```

```
/* nettle, low-level cryptographics library
```

```
*
```

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```

```
*/
```

```
/* This file is derived from cipher/serpent.c in Libgcrypt v1.4.6.
```

```
   The adaption to Nettle was made by Simon Josefsson on 2010-12-07
```

```
   with final touches on 2011-05-30. Changes include replacing
```

```
   libgcrypt with nettle in the license template, renaming
```

```
   serpent_context to serpent_ctx, renaming u32 to uint32_t, removing
```

```
   libgcrypt stubs and selftests, modifying entry function prototypes,
```

```
   using FOR_BLOCKS to iterate through data in encrypt/decrypt, using
```

```
   LE_READ_UINT32 and LE_WRITE_UINT32 to access data in
```

```
   encrypt/decrypt, and running indent on the code. */
```

```
/* serpent-set-key.c
```

```
*
```

```
* The serpent block cipher.
```

```
*
```

```
* For more details on this algorithm, see the Serpent website at
```

```
* http://www.cl.cam.ac.uk/~rja14/serpent.html
```

```
*/
```

```
/* nettle, low-level cryptographics library
```

```
*
```

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*
```

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*/

```

```

/* This file is derived from cipher/serpent.c in Libgcrypt v1.4.6.
The adaption to Nettle was made by Simon Josefsson on 2010-12-07
with final touches on 2011-05-30. Changes include replacing
libgcrypt with nettle in the license template, renaming
serpent_context to serpent_ctx, renaming u32 to uint32_t, removing
libgcrypt stubs and selftests, modifying entry function prototypes,
using FOR_BLOCKS to iterate through data in encrypt/decrypt, using
LE_READ_UINT32 and LE_WRITE_UINT32 to access data in
encrypt/decrypt, and running indent on the code. */

```

```

/*
* ifconfig This file contains an implementation of the command
* that either displays or sets the characteristics of
* one or more of the system's networking interfaces.
*
* Version: $Id: ifconfig.c,v 1.58 2008/10/02 23:31:04 ecki Exp $
*
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* Patched to support 'add' and 'del' keywords for_INET(4) addresses
* by Mrs. Brisby <mrs.brisby@nimh.org>
*
* {1.34} - 19980630 - Arnaldo Carvalho de Melo <acme@conectiva.com.br>
* - gettext instead of catgets for i18n
* 10/1998 - Andi Kleen. Use interface list primitives.
* 20001008 - Bernd Eckenfels, Patch from RH for setting mtu
* (default AF was wrong)
* 20010404 - Arnaldo Carvalho de Melo, use setlocale
*/

```

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=====

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#
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# Added reading in of packages.
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#
# Current Issues:
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The of the start-stop-daemon

- * A rewrite of the original Debian's start-stop-daemon Perl script

* in C (faster - it is executed many times during system startup).
*
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```
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#
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 *
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 *
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```
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 *      Wireless Tools
 *
 *      Jean II - HPL 99->04
 *
 * Main code for "iwevent". This listent for wireless events on rtnetlink.
 * You need to link this code against "iwcommon.c" and "-lm".
 *
 * Part of this code is from Alexey Kuznetsov, part is from Casey Carter,
 * I've just put the pieces together...
 * By the way, if you know a way to remove the root restrictions, tell me
```

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Jean-loup Gailly Mark Adler
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- *
- * curve25519-donna: Curve25519 elliptic curve, public key function
- *
- * <http://code.google.com/p/curve25519-donna/>
- *
- * Adam Langley <agl@imperialviolet.org>
- *
- * Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
- *
- * More information about curve25519 can be found here
- * <http://cr.yp.to/ecdh.html>
- *
- * djb's sample implementation of curve25519 is written in a special assembly
- * language called qasm and uses the floating point registers.
- *
- * This is, almost, a clean room reimplementation from the curve25519 paper. It
- * uses many of the tricks described therein. Only the crecip function is taken
- * from the sample implementation.
- */

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=====

loginrec.c
loginrec.h
atomicio.h
atomicio.c
and strlcat() (included in util.c) are from OpenSSH 3.6.1p2, and are licensed under the 2 point BSD license.

loginrec is written primarily by Andre Lucas, atomicio.c by Theo de Raadt.

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curve25519.c:

Modified TweetNaCl version 20140427, a self-contained public-domain C library.
<https://tweetnacl.cr.yp.to/>

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The Independent JPEG Group's JPEG software

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README for release 8d of 15-Jan-2012

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

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

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

DOCUMENTATION ROADMAP

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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.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

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

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

OVERVIEW

=====

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

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

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

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

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

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

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

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

We are required to state that

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REFERENCES

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

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

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

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

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

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

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

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

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

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

A PostScript version of the JFIF document is available at

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

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

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

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

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

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2

(Compression tag 7). Copies of this Note can be obtained from

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

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

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

ARCHIVE LOCATIONS

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

The most recent released version can always be found there in

directory "files". This particular version will be archived as

<http://www.ijg.org/files/jpegsrc.v8d.tar.gz>, and in Windows-compatible

"zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

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

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/>

and other news.answers archive sites, including the official news.answers

archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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

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

ACKNOWLEDGMENTS

=====

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

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

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

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

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

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

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

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

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

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

FILE FORMAT WARS

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

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

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

Don't use an incompatible file format!

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

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

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

Don't use an obsolete code base!

TO DO

=====

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

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

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

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

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This code implements the MD5 message-digest algorithm.
The algorithm is due to Ron Rivest. This code was
written by Colin Plumb in 1993, no copyright is claimed.
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Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
except that you don't need to include two pages of legalese
with every copy.

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

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- */

This package contains the URI.pm module with friends. The module implements the URI class. Objects of this class represent Uniform Resource Identifier references as specified in RFC 2396 and updated by RFC 2732.

URI objects can be used to access and manipulate the various components that make up these strings. There are also methods to combine URIs in various ways.

Some tests require an Internet connection to work and are skipped if one is not active.

You need perl-5.8.1 or better to install this package. You should also have the MIME::Base64 module installed. Installation is otherwise as usual:

```
perl Makefile.PL
make
make test
make install
```

Questions about how to use this library should be directed to the

comp.lang.perl.modules USENET Newsgroup. Bug reports and suggestions for improvements can be sent to the <libwww@perl.org> mailing list.

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48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
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