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@version 3.0 (December 2000)

Optimized ANSI C code for the Rijndael cipher (now AES)

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jpg "Clone me," says Dolly sheepishly

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3. [3] Viraj Bais <vbais@mailman1.intel.com> and [4] Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
4. [5] Michael Barone <michael,barone@lmco.com> GPSVME fixes
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28. [31] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
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36. [39] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
37. [40] Derek Mulcahy <derek@toybox.demon.co.uk> and [41] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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## zlib License

zlib 1.1.4 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://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). These documents are also available in other formats from <ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html>

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

To compile all files and run the test program, follow the instructions given at the top of `Makefile`. In short “make test; make install” should work for most machines. For Unix: “./configure; make test; make install” For MSDOS, use one of the special makefiles such as `Makefile.msc`. For VMS, use `Make_vms.com` or `descrip.mms`.

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://www.zlib.org> or <http://www.gzip.org/zlib/>. 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://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/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. Dob’s Journal; a copy of the article is available in <http://dogma.net/markn/articles/zlibtool/zlibtool.htm>

The changes made in version 1.1.4 are documented in the file `ChangeLog`. The only changes made since 1.1.3 are bug corrections:

- ZFREE was repeated on same allocation on some error conditions.  
This creates a security problem described in <http://www.zlib.org/advisory-2002-03-11.txt>
- Returned incorrect error (`Z_MEM_ERROR`) on some invalid data -
- Avoid accesses before window for invalid distances with inflate window less than 32K.
- force `windowBits > 8` to avoid a bug in the encoder for a window size of 256 bytes. (A complete fix will be available in 1.1.5).

The beta version 1.1.5beta includes many more changes. A new official version 1.1.5 will be released as soon as extensive testing has been completed on it.

Unsupported third party contributions are provided in directory “contrib”.

A Java implementation of zlib is available in the Java Development Kit <http://www.javasoft.com/products/JDK/1.1/docs/api/Package-java.util.zip.html>. See the zlib home page <http://www.zlib.org> for details.

A Perl interface to zlib written by Paul Marquess [<pmarquess@bfsec.bt.co.uk>](mailto:pmarquess@bfsec.bt.co.uk) is in the CPAN (Comprehensive Perl Archive Network) sites <http://www.cpan.org/modules/by-module/Compress/>

A Python interface to zlib written by A.M. Kuchling [<amk@magnet.com>](mailto:amk@magnet.com) is available in Python 1.5 and later versions, see <http://www.python.org/doc/lib/module-zlib.html>

A zlib binding for TCL written by Andreas Kupries [<a.kupries@westend.com>](mailto:a.kupries@westend.com) is available at <http://www.westend.com/~kupries/doc/trf/man/man.html>

An experimental package to read and write files in `.zip` format, written on top of zlib by Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com), is available at <http://www.winimage.com/zLibDll/unzip.html> and also in the `contrib/minizip` directory of zlib.

Notes for some targets:

- To build a Windows DLL version, include in a DLL project `zlib.def`, `zlib.rc` and all `.c` files except `example.c` and `minigzip.c`; compile with `-DZLIB_DLL` The zlib DLL support was initially done by Alessandro Iacopetti and is now maintained by Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com). Check the zlib DLL home page at <http://www.winimage.com/zLibDll>

From Visual Basic, you can call the DLL functions which do not take a structure as argument: compress, uncompress and all gz\* functions. See contrib/visual-basic.txt for more information, or get <http://www.tcfb.com/dowseware/cmp-z-it.zip>

- 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 (formerly 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.
- gzopen is not supported on RISCOS, BEOS and by some Mac compilers.
- For Turbo C the small model is supported only with reduced performance to avoid any far allocation; it was tested with -DMAX\_WBITS=11 -DMAX\_MEM\_LEVEL=3
- For PalmOs, see <http://www.cs.uit.no/~perm/PASTA/pilot/software.html> Per Harald Myrvang <perm@stud.cs.uit.no>

#### 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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