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@version 3.0 (December 2000)

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

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

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2. [2] Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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
5. [6] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
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7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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16. [17] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
17. [18] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
18. [19] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
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20. [21] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
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23. [25] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
24. [26] Frank Kardel [27] <Frank.Kardel@informatik.uni-erlangen.de> PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup
25. [28] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications

26. [29]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
27. [30]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
28. [31] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
29. [32] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
30. [33] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
31. [34] Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
32. [35] David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
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35. [38] Tom Moore <tmoore@fivel.daytonoh.ncr.com> i386 svr4 port
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
38. [42] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
39. [43] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
40. [44] Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
41. [45]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
42. [46]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
43. [47]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
44. [48]Michael Shields <shields@tembel.org> USNO clock driver
45. [49]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
46. [50]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
47. [51]Kenneth Stone <ken@sdd.hp.com> HP-UX port
48. [52]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
49. [53]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
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51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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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). 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 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>. 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.
- `gzdopen` 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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