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### zlib

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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- LASzip [version 3.1.1]
  - Logback [version 1.0.0]
  - Hibernate [version 3.6.0.Final]
  - Hunspell [version 1.3.2]
  - Java Topology Suite (JTS) [version 1.17.1]
  - Open Source Software Image Map - OSSIM (with libwms) [version: 1.8.4]
  - Pthreads [version 2.8.0]
  - Yet Another Java Service Wrapper (YAJSW) [version yajsw-alpha-9.5]
- 

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### **Version 2.1, February 1999**

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- Sensor Independent XML (SIX) [version 3.1.14]

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Version 3, 29 June 2007

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- Jpathwatch [version 0.95]

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- Mpeg-4 Demultiplexor and Multiplexor Filters [version 1.0.0.20]
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gdal/frmts/gtiff/tif\_float.c

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gdal/frmts/hdf4/hdf-eos/\*  
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gdal/frmts/pcraster/libcsf  
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gdal/frmts/grib/degrib/\*  
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gdal/ogr/ogrsf\_frmts/dxf/intronurbs.cpp  
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gdal/alg/thinplatespline.cpp  
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IEEE754 log() code derived from:  
@(#)e\_log.c 1.3 95/01/18

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gdal/alg/libqhull  
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gdal/frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())

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gdal/frmts/mrf/\* (apply when MRF driver included in build)

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Mersenne Twister

The `_random` C extension underlying the `random` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

The [socket](#) module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded in separate source files from the WIDE Project, <https://www.wide.ad.jp/>.

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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SipHash24

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves ([superCop/crypto\\_auth/siphash24/little](https://github.com/superCop/crypto_auth/siphash24/little))

djb ([superCop/crypto\\_auth/siphash24/little2](https://github.com/superCop/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

The file Python/dtoa.c, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <https://web.archive.org/web/20220517033456/http://www.netlib.org/fp/dtoa.c>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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The implementation of the hash table used by the [tracemalloc](#) is based on the cfuhash project:

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#### Audioop

The audioop module uses the code base in g771.c file of the SoX

project. <https://sourceforge.net/projects/sox/files/sox/12.17.7/sox-12.17.7.tar.gz>

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