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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 3, 29 June 2007

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- Jpathwatch [version 0.95]

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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

This code is derived from the code associated with the book "An Introduction to NURBS" by David F. Rogers. More information on the book and the code is available at:

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gdal/alg/thinplatespline.cpp

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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Any feedback is very welcome.

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

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

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

XML Remote Procedure Calls

The [xmlrpc.client](#) module contains the following notice:

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SipHash24

The file Python/pyhash.c contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note:

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Original location:

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

Solution inspired by code from:

Samuel Neves (supercop/crypto\_auth/siphhash24/little)

djb (supercop/crypto\_auth/siphhash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.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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```

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Jean-loup Gailly  
jloup@gzip.org

Mark Adler  
madler@alumni.caltech.edu

cfuhash

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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asyncio

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