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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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gdal/frmts/gtiff/tif_float.c

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gdal/frmts/pcraster/libcsf

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gdal/ogr/ogrsf_frmts/dxf/intronurbs.cpp

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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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C.B. Barber
Arlington, MA

and

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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)`  
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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

XML Remote Procedure Calls

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SipHash24

The file Python/pyhash.c contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm.

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Original location:

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

Solution inspired by code from:

Samuel Neves ([superfjord/cryptauth/siphhash24/little](https://github.com/superfjord/cryptauth/blob/master/siphhash24/little.c))

djb ([superfjord/cryptauth/siphhash24/little2](https://github.com/superfjord/cryptauth/blob/master/siphhash24/little2.c))

Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

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W3C C14N test suite

The C14N 2.0 test suite in the [test](#) package (Lib/test/xmltestdata/c14n-20/) was retrieved from the W3C  
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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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