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curve25519-donna: Curve25519 elliptic curve, public key function

http://code.google.com/p/curve25519-donna/

Adam Langley <agl@imperialviolet.org>

Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

More information about curve25519 can be found here

http://cr.yp.to/ecdh.html

djb's sample implementation of curve25519 is written in a special assembly

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This is, almost, a clean room reimplementation from the curve25519 paper. It

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This is free software, and you are welcome to redistribute it

under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program

`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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See the README file for the current license terms.

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the BSD license option for future distribution. As such, the GPL v2

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Software：grub2 3.484

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This is GRUB 2, the second version of the GRand Unified Bootloader.

GRUB 2 is rewritten from scratch to make GNU GRUB cleaner, safer, more

robust, more powerful, and more portable.

See the file NEWS for a description of recent changes to GRUB 2.

See the file INSTALL for instructions on how to build and install the

GRUB 2 data and program files.

Please visit the official web page of GRUB 2, for more information.

The URL is <http://www.gnu.org/software/grub/grub.html>.

More extensive documentation is available in the Info manual,

accessible using 'info grub' after building and installing GRUB 2.

There are a number of important user-visible differences from the

first version of GRUB, now known as GRUB Legacy. For a summary, please

see:

info grub Introduction 'Changes from GRUB Legacy'

Software：Lua 5.1.5

**Copyright notice：**

Copyright (C) 1994-2012 Lua.org, PUC-Rio. (end of COPYRIGHT) See COPYRIGHT and http:www.lua.org/license.html for details.

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README for Lua 5.1

See INSTALL for installation instructions.

See HISTORY for a summary of changes since the last released version.

\* What is Lua?

------------

Lua is a powerful, light-weight programming language designed for extending

applications. Lua is also frequently used as a general-purpose, stand-alone

language. Lua is free software.

For complete information, visit Lua's web site at http://www.lua.org/ .

For an executive summary, see http://www.lua.org/about.html .

Lua has been used in many different projects around the world.

For a short list, see http://www.lua.org/uses.html .

\* Availability

------------

Lua is freely available for both academic and commercial purposes.

See COPYRIGHT and http://www.lua.org/license.html for details.

Lua can be downloaded at http://www.lua.org/download.html .

\* Installation

------------

Lua is implemented in pure ANSI C, and compiles unmodified in all known

platforms that have an ANSI C compiler. In most Unix-like platforms, simply

do "make" with a suitable target. See INSTALL for detailed instructions.

\* Origin

------

Lua is developed at Lua.org, a laboratory of the Department of Computer

Science of PUC-Rio (the Pontifical Catholic University of Rio de Janeiro

in Brazil).

For more information about the authors, see http://www.lua.org/authors.html .

Software：lua-cjson 2.1.0

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These JSON examples were taken from the JSON website

(http://json.org/example.html) and RFC 4627.

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Software：minizip 1.01

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**License：zlib/libpng License**

Minizip zlib contribution that includes:

- AES encryption

- I/O buffering

- PKWARE disk spanning

- Visual Studio project files

It also has the latest bug fixes that having been found all over the internet including the minizip forum and zlib developer's mailing list.

\*AES Encryption\*

+ Requires all files in the aes folder

+ Requires #define HAVE\_AES

When using the zip library with password protection it will use AES 256-bit encryption.

When using the unzip library it will automatically use AES when applicable.

\*I/O Buffering\*

ourbuffer\_t buffered = {0};

zlib\_filefunc64\_def fileFunc64 = {0};

fill\_win32\_filefunc64W(&buffered->filefunc64);

fill\_buffer\_filefunc64(&fileFunc64, buffered);

unzOpen2\_64(wFilename, &fileFunc64)

\*PKWARE disk spanning\*

To create an archive with multiple disks use zipOpen3\_64 supplying a disk\_size value in bytes.

extern zipFile ZEXPORT zipOpen3\_64 OF((const void \*pathname, int append,

ZPOS64\_T disk\_size, zipcharpc\* globalcomment, zlib\_filefunc64\_def\* pzlib\_filefunc\_def));

The central directory is the only data stored in the .zip and doesn't follow disk\_size restrictions.

When using the unzip library it will automatically determine when in needs to span disks.

Software：openssl 1.1.1

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OpenSSL 1.1.1 11 Sep 2018

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DESCRIPTION

-----------

The OpenSSL Project is a collaborative effort to develop a robust,

commercial-grade, fully featured, and Open Source toolkit implementing the

Transport Layer Security (TLS) protocols (including SSLv3) as well as a

full-strength general purpose cryptographic library.

OpenSSL is descended from the SSLeay library developed by Eric A. Young

and Tim J. Hudson. The OpenSSL toolkit is licensed under a dual-license (the

OpenSSL license plus the SSLeay license), which means that you are free to

get and use it for commercial and non-commercial purposes as long as you

fulfill the conditions of both licenses.

OVERVIEW

--------

The OpenSSL toolkit includes:

libssl (with platform specific naming):

Provides the client and server-side implementations for SSLv3 and TLS.

libcrypto (with platform specific naming):

Provides general cryptographic and X.509 support needed by SSL/TLS but

not logically part of it.

openssl:

A command line tool that can be used for:

Creation of key parameters

Creation of X.509 certificates, CSRs and CRLs

Calculation of message digests

Encryption and decryption

SSL/TLS client and server tests

Handling of S/MIME signed or encrypted mail

And more...

INSTALLATION

------------

See the appropriate file:

INSTALL Linux, Unix, Windows, OpenVMS, ...

NOTES.\* INSTALL addendums for different platforms

SUPPORT

-------

See the OpenSSL website www.openssl.org for details on how to obtain

commercial technical support. Free community support is available through the

openssl-users email list (see

https://www.openssl.org/community/mailinglists.html for further details).

If you have any problems with OpenSSL then please take the following steps

first:

- Download the latest version from the repository

to see if the problem has already been addressed

- Configure with no-asm

- Remove compiler optimization flags

If you wish to report a bug then please include the following information

and create an issue on GitHub:

- OpenSSL version: output of 'openssl version -a'

- Configuration data: output of 'perl configdata.pm --dump'

- OS Name, Version, Hardware platform

- Compiler Details (name, version)

- Application Details (name, version)

- Problem Description (steps that will reproduce the problem, if known)

- Stack Traceback (if the application dumps core)

Just because something doesn't work the way you expect does not mean it

is necessarily a bug in OpenSSL. Use the openssl-users email list for this type

of query.

HOW TO CONTRIBUTE TO OpenSSL

----------------------------

See CONTRIBUTING

LEGALITIES

----------

A number of nations restrict the use or export of cryptography. If you

are potentially subject to such restrictions you should seek competent

professional legal advice before attempting to develop or distribute

cryptographic code.

Software：zlib 1.2.7

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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.7 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://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and

rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h

(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example

of the library is given in the file test/example.c which also tests that

the library is working correctly. Another example is given in the file

test/minigzip.c. The compression library itself is composed of all source

files in the root directory.

To compile all files and run the test program, follow the instructions given at

the top of Makefile.in. In short "./configure; make test", and if that goes

well, "make install" should work for most flavors of Unix. For Windows, use

one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use

make\_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant

<info@winimage.com> for the Windows DLL version. The zlib home page is

http://zlib.net/ . 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://zlib.net/zlib\_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997

issue of Dr. Dobb's Journal; a copy of the article is available at

http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.7 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at

http://java.sun.com/developer/technicalArticles/Programming/compression/ .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available

at CPAN (Comprehensive Perl Archive Network) sites, including

http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is

available in Python 1.5 and later versions, see

http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top

of zlib by Gilles Vollant <info@winimage.com>, is available in the

contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt

- 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 (formely 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 or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

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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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving

lengthy legal documents to sign. The sources are provided for free but without

warranty of any kind. The library has been entirely written by Jean-loup

Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in

the file ChangeLog history information documenting your changes. Please read

the FAQ for more information on the distribution of modified source versions.

Software：file 5.22

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Software written by Ian F. Darwin and others.

maintained 1994- Christos Zoulas.

**License：bsd-simplified**

## README for file(1) Command ##

@(#) $File: README,v 1.49 2015/01/02 20:23:04 christos Exp $

Mailing List: file@mx.gw.com

Mailing List archives: http://mx.gw.com/pipermail/file/

Bug tracker: http://bugs.gw.com/

E-mail: christos@astron.com

[![Build Status](https://travis-ci.org/file/file.png?branch=master)](https://travis-ci.org/file/file)

Phone: Do not even think of telephoning me about this program. Send cash first!

This is Release 5.x of Ian Darwin's (copyright but distributable)

file(1) command, an implementation of the Unix File(1) command.

It knows the 'magic number' of several thousands of file types.

This version is the standard "file" command for Linux,

\*BSD, and other systems. (See "patchlevel.h" for the exact release number).

You can download the latest version of the original sources for file from:

ftp://ftp.astron.com/pub/file/

A public read-only git repository of the same sources is available at:

https://github.com/file/file

The major changes for 5.x are CDF file parsing, indirect magic, name/use

(recursion) and overhaul in mime and ascii encoding handling.

The major feature of 4.x is the refactoring of the code into a library,

and the re-write of the file command in terms of that library. The library

itself, libmagic can be used by 3rd party programs that wish to identify

file types without having to fork() and exec() file. The prime contributor

for 4.0 was Mans Rullgard.

UNIX is a trademark of UNIX System Laboratories.

The prime contributor to Release 3.8 was Guy Harris, who put in megachanges

including byte-order independence.

The prime contributor to Release 3.0 was Christos Zoulas, who put

in hundreds of lines of source code changes, including his own

ANSIfication of the code (I liked my own ANSIfication better, but

his (\_\_P()) is the "Berkeley standard" way of doing it, and I wanted UCB

to include the code...), his HP-like "indirection" (a feature of

the HP file command, I think), and his mods that finally got the

uncompress (-z) mode finished and working.

This release has compiled in numerous environments; see PORTING

for a list and problems.

This fine freeware file(1) follows the USG (System V) model of the file

command, rather than the Research (V7) version or the V7-derived 4.[23]

Berkeley one. That is, the file /etc/magic contains much of the ritual

information that is the source of this program's power. My version

knows a little more magic (including tar archives) than System V; the

/etc/magic parsing seems to be compatible with the (poorly documented)

System V /etc/magic format (with one exception; see the man page).

In addition, the /etc/magic file is built from a subdirectory

for easier(?) maintenance. I will act as a clearinghouse for

magic numbers assigned to all sorts of data files that

are in reasonable circulation. Send your magic numbers,

in magic(5) format please, to the maintainer, Christos Zoulas.

COPYING - read this first.

README - read this second (you are currently reading this file).

INSTALL - read on how to install

src/apprentice.c - parses /etc/magic to learn magic

src/asctime\_r.c - replacement for OS's that don't have it.

src/apptype.c - used for OS/2 specific application type magic

src/asprintf.c - replacement for OS's that don't have it.

src/ascmagic.c - third & last set of tests, based on hardwired assumptions.

src/asctime\_r.c - replacement for OS's that don't have it.

src/asprintf.c - replacement for OS's that don't have it.

src/cdf.[ch] - parser for Microsoft Compound Document Files

src/cdf\_time.c - time converter for CDF.

src/compress.c - handles decompressing files to look inside.

src/ctime\_r.c - replacement for OS's that don't have it.

src/elfclass.h - common code for elf 32/64.

src/encoding.c - handles unicode encodings

src/file.c - the main program

src/file.h - header file

src/file\_opts.h - list of options

src/fmtcheck.c - replacement for OS's that don't have it.

src/fsmagic.c - first set of tests the program runs, based on filesystem info

src/funcs.c - utilility functions

src/getline.c - replacement for OS's that don't have it.

src/getopt\_long.c - replacement for OS's that don't have it.

src/is\_tar.c, tar.h - knows about tarchives (courtesy John Gilmore).

src/names.h - header file for ascmagic.c

src/magic.h.in - source file for magic.h

src/magic.c - the libmagic api

src/pread.c - replacement for OS's that don't have it.

src/print.c - print results, errors, warnings.

src/readcdf.c - CDF wrapper.

src/readelf.[ch] - Stand-alone elf parsing code.

src/softmagic.c - 2nd set of tests, based on /etc/magic

src/mygetopt.h - replacement for OS's that don't have it.

src/strcasestr.c - replacement for OS's that don't have it.

src/strlcat.c - replacement for OS's that don't have it.

src/strlcpy.c - replacement for OS's that don't have it.

src/tar.h - tar file definitions

src/vasprintf.c - for systems that don't have it.

doc/file.man - man page for the command

doc/magic.man - man page for the magic file, courtesy Guy Harris.

Install as magic.4 on USG and magic.5 on V7 or Berkeley; cf Makefile.

Magdir - directory of /etc/magic pieces

------------------------------------------------------------------------------

If you submit a new magic entry please make sure you read the following

guidelines:

- Initial match is preferably at least 32 bits long, and is a \_unique\_ match

- If this is not feasible, use additional check

- Match of <= 16 bits are not accepted

- Delay printing string as much as possible, don't print output too early

- Avoid printf arbitrary byte as string, which can be a source of

crash and buffer overflow

- Provide complete information with entry:

\* One line short summary

\* Optional long description

\* File extension, if applicable

\* Full name and contact method (for discussion when entry has problem)

\* Further reference, such as documentation of format

------------------------------------------------------------------------------

Parts of this software were developed at SoftQuad Inc., developers

of SGML/HTML/XML publishing software, in Toronto, Canada.

SoftQuad was swallowed up by Corel in 2002 and does not exist any longer.

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This directory contains the sources of the GNU C Library.

See the file "version.h" for what release version you have.

The GNU C Library is the standard system C library for all GNU systems,

and is an important part of what makes up a GNU system. It provides the

system API for all programs written in C and C-compatible languages such

as C++ and Objective C; the runtime facilities of other programming

languages use the C library to access the underlying operating system.

In GNU/Linux systems, the C library works with the Linux kernel to

implement the operating system behavior seen by user applications.

In GNU/Hurd systems, it works with a microkernel and Hurd servers.

The GNU C Library implements much of the POSIX.1 functionality in the

GNU/Hurd system, using configurations i[34567]86-\*-gnu.

When working with Linux kernels, the GNU C Library version 2.4 is

intended primarily for use with Linux kernel version 2.6.0 and later.

We only support using the NPTL implementation of pthreads, which is now

the default configuration. Most of the C library will continue to work

on older Linux kernels and many programs will not require a 2.6 kernel

to run correctly. However, pthreads and related functionality will not

work at all on old kernels and we do not recommend using glibc 2.4 with

any Linux kernel prior to 2.6.

All Linux kernel versions prior to 2.6.16 are known to have some bugs that

may cause some of the tests related to pthreads in "make check" to fail.

If you see such problems, please try the test suite on the most recent

Linux kernel version that you can use, before pursuing those bugs further.

The old LinuxThreads add-on implementation of pthreads for older Linux

kernels is no longer supported, and we are not distributing it with this

release. Someone has volunteered to revive its maintenance unofficially

for at least a short time for the benefit of those using Linux kernels

older than 2.6, but a working version is not presently available. When

it is in working condition, we will make it available alongside future

glibc releases. LinuxThreads will not be supported.

The GNU C Library supports these configurations for using Linux kernels:

i[34567]86-\*-linux-gnu

x86\_64-\*-linux-gnu

powerpc-\*-linux-gnu

powerpc64-\*-linux-gnu

s390-\*-linux-gnu

s390x-\*-linux-gnu

ia64-\*-linux-gnu

sparc\*-\*-linux-gnu

sparc64\*-\*-linux-gnu

alpha\*-\*-linux-gnu Requires Linux 2.6.9 for NPTL

sh[34]-\*-linux-gnu Requires Linux 2.6.11

The code for other CPU configurations supported by volunteers outside of

the core glibc maintenance effort is contained in the separate `ports'

add-on. You can find glibc-ports-VERSION distributed separately in the

same place where you got the main glibc distribution files.

Currently these configurations are known to work using the `ports' add-on:

arm-\*-linux-gnu Requires Linux 2.6.15 for NPTL, no SMP support

arm-\*-linux-gnueabi Requires Linux 2.6.16-rc1 for NPTL, no SMP

mips-\*-linux-gnu Requires Linux 2.6.12 for NPTL

mips64-\*-linux-gnu Requires Linux 2.6.12 for NPTL

The ports distribution also contains code for other configurations that

do not work or have not been maintained recently, but will be of use to

anyone trying to make a new configuration work. If you are interested

in doing a port, please contact the glibc maintainers; see

http://www.gnu.org/software/libc/ for more information.

See the file INSTALL to find out how to configure, build, and install

the GNU C Library. You might also consider reading the WWW pages for

the C library at http://www.gnu.org/software/libc/.

The GNU C Library is (almost) completely documented by the Texinfo manual

found in the `manual/' subdirectory. The manual is still being updated

and contains some known errors and omissions; we regret that we do not

have the resources to work on the manual as much as we would like. For

corrections to the manual, please file a bug in the `manual' component,

following the bug-reporting instructions below. Please be sure to check

the manual in the current development sources to see if your problem has

already been corrected.

The file NOTES contains a description of the feature-test macros used

in the GNU C library, explaining how you can tell the library what

facilities you want it to make available.

Please see http://www.gnu.org/software/libc/bugs.html for bug reporting

information. We are now using the Bugzilla system to track all bug reports.

This web page gives detailed information on how to report bugs properly.

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If you have any suggestions, additions, comments, or questions, please let [20]me know.

[21]Douglas C. Schmidt

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(c) overriden per-DSO by setting the override callback

(d) a mix of (b) and (c) - eg. implement an override callback that;

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