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```
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1.5 cryptsetup_python 1.5.1 :2012-10-11

Milan Broz

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1.8 device-mapper-libs 1.02.28 :(2008-09-18)

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Theodore Ts'o
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That's all there is to it!

/*

* fopen.c --- unlike the libc popen, it directly executes the
* command instead of call out to the shell.

*

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*


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*
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```
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```

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```
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.15 gdbm 1.8.3 :Oct 15 2002 Jason Downs

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```
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```

```
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1.16 Glibc 2.14.1 :2011-10-07 Andreas Schwab

1.16.1 Available under license :

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1.17 gnupg 1.4.7

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

RC4 is a registered trademark of RSA Laboratories.

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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1.27 libgpg-error 1.7 :2008-11-26 Werner Koch

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Attempt to guess a canonical system name.

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1.28 libgpg-error_scripts 1.7 :2008-11-26

Werner Koch

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```
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```
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```

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1.32 libpcap 1.1.1 :April 1, 2010.

guy@alum.mit.edu.

1.32.1 Available under license :

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* \$FreeBSD: src/sys/net80211/ieee80211.h,v 1.10 2005/07/22 16:55:27 sam Exp \$

1.33 Libstdc++ 3.0 :2001-06-14 Nathan Sidwell

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1.35 libusb 1.0.9 :Apr 20 2012 Peter Stuge

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1.36 libxml2 2.7 :8

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*

*

* Functions to handle special quantities in floating-point numbers
* (that is, NaNs and infinity). They provide the capability to detect
* and fabricate special quantities.

*

* Although written to be as portable as possible, it can never be

- * guaranteed to work on all platforms, as not all hardware supports
- * special quantities.
- *
- * The approach used here (approximately) is to:
- *
- * 1. Use C99 functionality when available.
- * 2. Use IEEE 754 bit-patterns if possible.
- * 3. Use platform-specific techniques.
- *

*****/

1.37 Linux Kernel 3.2.0

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1.39 mtd 1.38 :2003/01/12

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```
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 *
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 *
 * $Id: mtd.c 7159 2007-05-10 08:54:37Z mbm $
 *
 * The code is based on the linux-mtd examples.
 */
```

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```

1.42 ntpclient unspecified

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```
/*
 * adjtimex_1.c - read, and possibly modify, the Linux kernel `timex' variables.
 *
 * Originally written: October 1997
 * Last hack: May 2003
 * Copyright 1997, 2000, 2003 Larry Doolittle <larry@doolittle.boa.org>
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 *
 * This adjtimex(1) is very similar in intent to adjtimex(8) by Steven
 * Dick <ssd@nevets.oau.org> and Jim Van Zandt <jrv@vanzandt.mv.com>
 * (see http://metalab.unc.edu/pub/Linux/system/admin/time/adjtimex\*).
 * That version predates this one, and is _much_ bigger and more
 * featureful. My independently written version was very similar to
 * Steven's from the start, because they both follow the kernel timex
 * structure. I further tweaked this version to be equivalent to Steven's
 * where possible, but I don't like getopt_long, so the actual usage
 * syntax is incompatible.
 *
 * Amazingly enough, my Red Hat 5.2 sys/timex (and sub-includes)
 * don't actually give a prototype for adjtimex(2), so building
 * this code (with -Wall) gives a warning. Later versions of
 * glibc fix this issue.
 *
 * This program is too simple for a Makefile, just build with:
 * gcc -Wall -O adjtimex_1.c -o adjtimex
 */
```

ntpclient is an NTP (RFC-1305) client for unix-alike computers.
Its functionality is a small subset of xntpd, but IMHO performs
better (or at least has the potential to function better) within
that limited scope. Since it is much smaller than xntpd, it is
also more relevant for embedded computers.

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ntpclient home page: <http://doolittle.faludi.com/ntpclient/>

To build on Linux, type "make". Solaris and other Unix users will probably need to adjust the Makefile slightly. It's not complex. For changing the system clock frequency, only the Linux adjtimex(2) interface is implemented at this time. Non-Linux systems can only use ntpclient to measure time differences and set the system clock.

Usage: ntpclient [options]

options:

- c count stop after count time measurements (default 0 means go forever)
- d print diagnostics (feature can be disabled at compile time)
- g goodness causes ntpclient to stop after getting a result more accurate than goodness (microseconds, default 0 means go forever)
- h hostname (mandatory) NTP server host, against which to measure system time
- i interval check time every interval seconds (default 600)
- l attempt to lock local clock to server using adjtimex(2)
- p port local NTP client UDP port (default 0 means "any available")
- r replay analysis code based on stdin
- s simple clock set (implies -c 1)

Mortal users can use this program for monitoring, but not clock setting (with the -s or -l switches). The -l switch has only seen serious testing in a low latency (less than 2 ms) Ethernet environment, although I also use it successfully with a cable modem (latency about 15 ms). Users in other environments should study ntpclient's behavior, and be prepared to adjust internal tuning parameters. A long description of how and why to use ntpclient is in the HOWTO file. ntpclient always sends packets to the server's UDP port 123.

The test.dat file has 200 lines of sample output. Its first few lines, with the output column headers that are shown when the -d option is chosen, are:

day	second	elapsed	stall	skew	dispersion	freq
51785	00180.386	1398.0	40.3	953773.9	793.5	-1240000
51785	00780.382	1358.0	41.3	954329.0	915.5	-1240000
51785	01380.381	1439.0	56.0	954871.3	915.5	-1240000

day, second: time of measurement, UTC, relative to Unix epoch (Jan 1, 1970)

elapsed: total time from query to response (microseconds)

stall: time the server reports that it sat on the request (microseconds)

skew: difference between local time and server time (microseconds)

dispersion: reported by server, see RFC-1305 (microseconds)

freq: local clock frequency adjustment (Linux only, ppm*65536)

test.dat is suitable for piping into ntpclient -r. I have over 200000 samples (lines) archived for study, that I don't include here.

They are generally spaced 10 minutes apart, representing over three years of data logging (from a variety of machines, and not continuous, unfortunately).

As a special, added bonus, I also include my adjtimex(1) program. See its man page and the HOWTO file for more information.

envelope is a perl script that I have used for my lock studies. It's kind of a hack and not worth documenting here.

Changes since the widely distributed ntpclient_2000_345 version:

- new -g option (has had limited testing)
- changed max frequency adjustment from 91 ppm to 150 ppm
- fixed "inconsistent" bug in phaselock.c triggered by large freq errors
- new files: HOWTO, adjtimex.c, adjtimex.1, rate.awk, log2date.pl
- minor source code cleanups
- source is now as 64-bit clean as practical; tested on Alpha
- optional patches provided by Andy Warner, see andyw.patch
- optional patches provided by Linksys, see linksys.patch
- removed unexplained and unreasonable 15020 day offset in date column

Bugs:

- Doesn't understand the LI (Leap second Indicator) field of an NTP packet
- Doesn't interact with adjtimex(2) status value

- Larry Doolittle <larry@doolittle.boa.org>

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1.43 openssl 1.0.0g

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1.44 pcre 8.3.4 :15-December-2013

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1.46 popt 1.16

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1.47 ppp 2.4.4

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1.49 procps-ps 3.2.8

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1.50 sudo 1.7 :2p6

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1.51 syslogd 1.5

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1.54 tcpdump 4.2.1 :December 9, 2011

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1.59 zlib 1.2.7 :(2 May 2012)

1.59.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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Jean-loup Gailly Mark Adler
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