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Theodore Ts'o
23-June-2007

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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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1.9 iptables 1.4.10

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1.10 libpcap 0.9.4

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1.11 librpc 0.9.32-rc2

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That's all there is to it!

```
/* ISO C9x 7.18 Integer types <stdint.h>
```

```
* Based on ISO/IEC SC22/WG14 9899 Committee draft (SC22 N2794)
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*
```

```
* Date: 2010-04-02
```

```
*/
```

1.13 libxml2 2.7.8 :Jul 10 2009 Daniel Veillard

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# configuration script generated by Autoconf, you may include it under
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```

```
# Originally written by Per Bothner. Please send patches (context
# diff format) to <config-patches@gnu.org> and include a ChangeLog
# entry.
```

1.14 logrotate 3.7 :8

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1.15 ntpclient 2003_194

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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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1.16 openssl 1.0.0g

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1.17 pcre 8.34 :15-December-2013

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Written by: Philip Hazel
Email local part: ph10
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End

/* PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Written by Philip Hazel
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1.18 popt 1.16

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1.19 ppp 2.4.4

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*
* A plugin which is stacked on top of radius.so. This plugin writes
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* into /var/run/radattr.pppN. These attributes are available for
* consumption by /etc/ppp/ip-{up,down} scripts.
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Jean-loup Gailly Mark Adler
gzip@prep.ai.mit.edu madler@alumni.caltech.edu

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*/

*

* if_ppp.h - Point-to-Point Protocol definitions.

*

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#
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# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
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```

1.21 syslogd 1.5

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1.24 tcpdump 4.2 :December 9, 2011

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*

* Internet, ethernet, port, and protocol string to address

* and address to string conversion routines

*/

1.25 udev 106

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1.27 zlib 1.2.3

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