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## 1.6 e2fsprogs 1.41.2

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

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

\*

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```

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-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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## 1.17 pcre 8.34 :15-December-2013

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#### THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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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.

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## 1.19 ppp 2.4.4

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*
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```
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/* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.0.4, Jul 24th, 1996.
```

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\*/

\*

\* if\_ppp.h - Point-to-Point Protocol definitions.

\*

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# Originally written by Per Bothner <per@bothner.com>.
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#
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#
# The plan is that this can be called by configure scripts if you
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```

## 1.21 sysklogd 1.5

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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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