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MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm

\*/

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## 1.17 mDNSResponder 107.6

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/\* -\*- Mode: C; tab-width: 4 -\*-

\*

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# 1.18 msmtip 1.4.21

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#### Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>  
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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.24 ntpclient 345.0

## 1.24.1 Available under license :

ntplib 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.

ntplib is Copyright 1997, 1999, 2000 Larry Doolittle, and may be freely used and copied according to the terms of the GNU General Public License, version 2.

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

To build on Linux, type "make". Solaris and other Unix users will probably need to adjust the Makefile slightly. It's not complicated.

Usage: ntplib [options]

options:

- c count    stop after count time measurements (default 0 means go forever)
- d        print diagnostics (feature can be disabled at compile time)
- 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 not been well tested. Simulation (with -r) actually looks halfway decent, so locking should be OK too, but it needs some tuning.

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	180.386	1398.0	40.3	953773.9	793.5	-1240000
51785	780.382	1358.0	41.3	954329.0	915.5	-1240000
51785	1380.381	1439.0	56.0	954871.3	915.5	-1240000

day, second: time of measurement

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 53000 samples (lines) archived for study, that I don't include here. They are spaced 10 minutes apart, representing over a year of data logging (not continuous, unfortunately).

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

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

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Version 2, June 1991

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## 1.35 syslogd 1.4.1

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```
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```

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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## 1.40 zlib 1.2.3

### 1.40.1 Available under license :

License attached

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.3, July 18th, 2005
```

Copyright (C) 1995-2005 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

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