



Red Hat Enterprise Linux Release 9.2 Manual Pages on 'clockdiff.8' command

\$ man clockdiff.8

CLOCKDIFF(8) iputils CLOCKDIFF(8)

NAME

clockdiff - measure clock difference between hosts

SYNOPSIS

clockdiff [-o] [-o1] [--time-format ctime iso] [-V] {destination}

DESCRIPTION

clockdiff Measures clock difference between us and destination with 1 msec resolution using ICMP TIMESTAMP [2] packets or, optionally, IP TIMESTAMP option [3] option added to ICMP ECHO. [1]

OPTIONS

-o

Use IP TIMESTAMP with ICMP ECHO instead of ICMP TIMESTAMP messages.

It is useful with some destinations, which do not support ICMP

TIMESTAMP (f.e. Solaris <2.4).

-o1

Slightly different form of -o, namely it uses three-term IP

TIMESTAMP with prespecified hop addresses instead of four term one.

What flavor works better depends on target host. Particularly, -o

is better for Linux.

-T, --time-format ctime iso

Print time stamp in output either ISO-8601 format or classical ctime format. The ctime format is default. The ISO time stamp includes timezone, and is easier to parse.

-I

Alias of --time-format iso option and argument.

-h, --help

Print help and exit.

-V, --version

Print version and exit.

WARNINGS

? Some nodes (Cisco) use non-standard timestamps, which is allowed by RFC, but makes timestamps mostly useless.

? Some nodes generate messed timestamps (Solaris>2.4), when run xntpd. Seems, its IP stack uses a corrupted clock source, which is synchronized to time-of-day clock periodically and jumps randomly making timestamps mostly useless. Good news is that you can use NTP in this case, which is even better.

? clockdiff shows difference in time modulo 24 days.

SEE ALSO

ping(8), arping(8), tracepath(8).

REFERENCES

[1] ICMP ECHO, RFC0792, page 14.

[2] ICMP TIMESTAMP, RFC0792, page 16.

[3] IP TIMESTAMP option, RFC0791, 3.1, page 16.

AUTHOR

clockdiff was compiled by Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>. It was based on code borrowed from BSD timed daemon.

SECURITY

clockdiff requires CAP_NET_RAW capability to be executed. It is safe to be used as set-uid root.

AVAILABILITY

clockdiff is part of iputils package.

iputils 20210202

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