

**NAME**

iperf – perform network throughput tests

**SYNOPSIS**

**iperf -s** [ *options* ]

**iperf -c** *server* [ *options* ]

**iperf -u -s** [ *options* ]

**iperf -u -c** *server* [ *options* ]

**DESCRIPTION**

iperf is a tool for performing network throughput measurements. It can test either TCP or UDP throughput. To perform an iperf test the user must establish both a server (to discard traffic) and a client (to generate traffic).

**GENERAL OPTIONS**

**-f, --format**

[kmKM] format to report: Kbits, Mbits, KBytes, MBytes

**-h, --help**

print a help synopsis

**-i, --interval** *n*

pause *n* seconds between periodic bandwidth reports

**-l, --len** *n*[KM]

set length read/write buffer to *n* (default 8 KB)

**-m, --print\_mss**

print TCP maximum segment size (MTU - TCP/IP header)

**-o, --output** <filename>

output the report or error message to this specified file

**-p, --port** *n*

set server port to listen on/connect to to *n* (default 5001)

**-u, --udp**

use UDP rather than TCP

**-w, --window** *n*[KM]

TCP window size (socket buffer size)

**-B, --bind** <host>

bind to <host>, an interface or multicast address

**-C, --compatibility**

for use with older versions does not sent extra msgs

**-M, --mss** *n*

set TCP maximum segment size (MTU - 40 bytes)

**-N, --nodelay**

set TCP no delay, disabling Nagle's Algorithm

**-v, --version**

print version information and quit

**-V, --IPv6Version**

Set the domain to IPv6

**-x, --reportexclude**

[CDMSV] exclude C(connection) D(data) M(multicast) S(settings) V(server) reports

**-y, --reportstyle C|c**

if set to C or c report results as CSV (comma separated values)

**SERVER SPECIFIC OPTIONS****-s, --server**

run in server mode

**-U, --single\_udp**

run in single threaded UDP mode

**-D, --daemon**

run the server as a daemon

**CLIENT SPECIFIC OPTIONS****-b, --bandwidth *n*[KM]**

set target bandwidth to *n* bits/sec (default 1 Mbit/sec). This setting requires UDP (-u).

**-c, --client <host>**

run in client mode, connecting to <host>

**-d, --dualtest**

Do a bidirectional test simultaneously

**-n, --num *n*[KM]**

number of bytes to transmit (instead of -t)

**-r, --tradeoff**

Do a bidirectional test individually

**-t, --time *n***

time in seconds to transmit for (default 10 secs)

**-F, --fileinput <name>**

input the data to be transmitted from a file

**-I, --stdin**

input the data to be transmitted from stdin

**-L, --listenport *n***

port to receive bidirectional tests back on

**-P, --parallel *n***

number of parallel client threads to run

**-T, --ttl *n***

time-to-live, for multicast (default 1)

**-Z, --linux-congestion <algo>**

set TCP congestion control algorithm (Linux only)

**ENVIRONMENT****TCP\_WINDOW\_SIZE**

Controls the size of TCP buffers.

**DIAGNOSTICS**

This section needs to be filled in.

**BUGS**

Exit statuses are inconsistent. The threading implementation is rather heinous.

**AUTHORS**

Iperf was originally written by Mark Gates and Alex Warshavsky. Man page and maintenance by Jon Dugan <jdugan at x1024 dot net>. Other contributions from Ajay Tirumala, Jim Ferguson, Feng Qin, Kevin

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**SEE ALSO**

<http://iperf.sourceforge.net/>