

**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 Gibbs, John Estabrook <jestabro at ncsa.uiuc.edu>, Andrew Gallatin <gallatin at gmail.com>, Stephen Hemminger <shemminger at linux-foundation.org>

**SEE ALSO**

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