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 recieve 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
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SEE ALSO

http://iperf.sourceforge.net/