NAME

netperf – a network performance benchmark

SYNOPSIS

netperf [global options] -- [test specific options]

DESCRIPTION

Netperf is a benchmark that can be used to measure various aspects of networking performance. Currently, its focus is on bulk data transfer and request/response performance using either TCP or UDP, and the Berkeley Sockets interface. In addition, tests for DLPI, and Unix Domain Sockets, tests for IPv6 may be conditionally compiled-in.

GLOBAL OPTIONS

-a sizespec

Alter the send and receive buffer alignments on the local system. This defaults to 8 bytes.

-A sizespec

As -a, but for the remote system.

-c [rate]

Request CPU utilization and service demand calculations for the local system. If the optional rate parameter is specified, **netperf** will use that instead of calculating the rate itself.

-C [rate]

As -c, but for the remote system.

-d Increase the quantity of debugging output displayed during a test (possibly at the expense of performance).

-f GMKgmk

Change the units of measure for *_STREAM tests. Capital letters are powers of two, lowercase are powers of ten.

-F fill_file

Pre-fill the send buffers with data from the named file. This is intended to provide a means for avoiding buffers that are filled with data which is trivially easy to compress. A good choice for a file that should be present on any system is this manpage - netperf.man. Other files may be provided as part of the distribution.

-h Display a usage string, and exit.

-H remote host,local host

Set the hostname (or IP address) of the remote system. Passing a single name with no comma will only set remote_host and will leave selection of local IP address for the control connection to the stack. Specifying ",local_host" will only set local_host and will leave remote_host at the default.

-i max,min

Set the maximum and minimum number of iterations when trying to reach certain confidence levels.

-I lvl,[,intvl]

Specify the confidence level (either 95 or 99 - 99 is the default) and the width of the confidence interval as a percentage (default 10)

-l testlen

Specify the length of the test (default 10 seconds). A negative value sets the number of request/response transactions, or the number of bytes for a stream test.

-n numcpus

Specify the number of CPU's in the system on those systems for which netperf has no way to find the number of CPU's programatically.

-o sizespec

Set an offset from the alignment specified with -a.

-O sizespec

As -o, but for the remote system.

-p portnum,locport

Connect to a listening on the specified port, rather than using /etc/services. If ",locport" is specified the control connection will be established from that local port number. Specifying a single port number with no comma will specify only the remote port number and will leave local port number selection to the stack.

 $-\mathbf{P} \mathbf{0} | \mathbf{1}$ Show (1) or suppress (0) the test banner.

-t testname

Specify the test to perform. Valid testnames are (but not always compiled-in):

TCP_STREAM TCP_MAERTS TCP_RR TCP_CRR UDP_STREAM UDP_RR TCPIPV6_STREAM TCPIPV6_RR TCPIPV6_CRR UDPIPV6_STREAM UDPIPV6_RR DLCO_STREAM $DLCO_RR$ $DLCL_STREAM$ $DLCL_RR$ STREAM_STREAM STREAM_RR DG_STREAM DG_RR LOC_CPU

REM_CPU

-v verbosity

Set the verbosity level for the test (only with -P).

-V Enable the copy-avoidance features (HP-UX 9.0 and later only).

TEST SPECIFIC OPTIONS

-h Display a usage string based on the test name set with -t, and exit.

Please consult the netperf manual *Netperf: A Network Performance Benchmark* (netperf.ps) for more information. Or you can join and mail to netperf-talk@netperf.org.

BUGS

There is a fairly large list of known defects and misfeatures in the manual. If you think you have found a bug, please send email to Rick Jones <raj@cup.hp.com>.

SEE ALSO

Netperf: A Network Performance Benchmark http://www.netperf.org/

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Others too numerous to mention here - see the ACKNWLDGMNTS fi le