What follows is a brief description of some of the known output

selectors for the "omni" test of netperf2. These are the identifiers

one should use in the file passed to either the -o or -O test-specific

options.

Output Name: OUTPUT\_NONE

Description: Generates no actual output. Results in a "blank" entry

in CSV output.

Output Name: COMMAND\_LINE

Description: Emits a copy of the complete netperf command line.

Output Name: RESULT\_BRAND

Description: Emits the argument to the global -B option to tag a

result with a user-supplied string.

Output Name: SOCKET\_TYPE

Description: The type of the socket for the data "connection." Known

values include "stream," "dgram" and "dccp."

Output Name: PROTOCOL

Description: The name of the transport-layer protocol used for the

data "connection." Possible values include "TCP," "UDP,"

"SCTP," and "DCCP."

Output Name: DIRECTION

Description: The direction, relative to the netperf process, of data

flow on the data "connection."

Output Name: ELAPSED\_TIME

Description: The elapsed time during which data was flowing on the

data "connection."

Output Name: SOURCE\_PORT

Description: The source (netperf side) port for the data "connection."

Output Name: SOURCE\_ADDR

Description: The source name/IP for the data "connection."

Output Name: SOURCE\_FAMILY

Description: The source address family for the data "connection."

Values include "inet" for IPv4 (AF\_INET) and "inet6" for

IPv6 (AF\_INET6).

Output Name: DEST\_PORT

Description: The destination (netserver side) port for the data

"connection."

Output Name: DEST\_ADDR

Description: The destination name/IP for the data "connection."

Output Name: DEST\_FAMILY

Description: The destination address family for the data "connection."

Values include "inet" for IPv4 (AF\_INET) and "inet6" for

IPv6 (AF\_INET6).

Output Name: THROUGHPUT

Description: The throughput (goodput) for the test expressed in units

based on either test type or explicitly via the global -f

option.

Output Name: LOCAL\_SEND\_THROUGHPUT

Description: The local (netperf) side send rate in either -f units or

10^6 bits per second if -f x is used.

Output Name: LOCAL\_RECV\_THROUGHPUT

Description: The local (netperf) side receive rate in either -f units

or 10^6 bits per second if -f x is used.

Output Name: REMOTE\_SEND\_THROUGHPUT

Description: The remote (netserver) side send rate in either -f units

or 10^6 bits per second if -f x is used.

Output Name: REMOTE\_RECV\_THROUGHPUT

Description: The remote (netserver) side receive rate in either -f

units or 10^6 bits per second in -f x is used.

Output Name: THROUGHPUT\_UNITS

Description: The units for the value of "THROUGHPUT."

Output Name: CONFIDENCE\_LEVEL

Description: The desired level of "confidence" in the remoted average

for THROUGHPUT, LOCAL\_CPU\_UTIL and/or

REMOTE\_CPU\_UTIL. Either "99" for 99% confidence or "95"

for 95% confidence. Controlled via the first argument to

the global -I option.

Output Name: CONFIDENCE\_INTERVAL

Description: The "width" (in percent of reported average) of the desired

confidence interval. Controlled via the second argument

to the global -I option.

Output Name: CONFIDENCE\_ITERATION

Description: The actual number of iterations run while trying to

achieve the desired confidence level/interval. Never

greater than 30 or the maximum iterations specified via

the global -i option.

Output Name: THROUGHPUT\_CONFID

Description: The actual confidence interval achieved for THROUGHPUT.

Output Name: LOCAL\_CPU\_CONFID

Description: The actual confidence interval achieved for local

(netperf side) CPU utilization.

Output Name: REMOTE\_CPU\_CONFID

Description: The actual confidence interval achieved for the remote

(netperf side) CPU utilization.

Output Name: TRANSACTION\_RATE

Description: The transaction rate in Transactions per second for a

"RR" or "CC" style test regardless of the format selected

with the global -f option.

Output Name: RT\_LATENCY

Description: The average round-trip latency in microseconds per

transaction for an "RR" or "CC" style test. When the

"BURST\_SIZE" is <=0 this is simply the inverse of

TRANSACTION\_RATE.

Output Name: BURST\_SIZE

Description: The number of additional transactions to have in flight

at one time during an "RR" style test. Total number of

transactions in flight will be one greater than this

value. Specified by the test-specific -b argument when

netperf is ./configured with --enable-burst.

Output Name: TRANSPORT\_MSS

Description: The Maximum Segment Size for the transport used for the

data "connection" when available. Units of bytes.

Output Name: REQUEST\_SIZE

Description: The size in bytes of each request sent over the data

"connection" from netperf to netserver during an "RR"

style test.

Output Name: RESPONSE\_SIZE

Description: The size in bytes of each response sent over the data

"connection" from netserver to netperf during an "RR"

style test.

Output Name: LSS\_SIZE\_REQ

Description: The requested size in bytes for the data "connection's"

local (netperf side) socket send buffer (SO\_SNDBUF) or -1

if system defaults were accepted.

Output Name: LSS\_SIZE

Description: The actual size in bytes for the data "connection's"

local (netperf side) socket send buffer (SO\_SNDBUF)

after the socket was created.

Output Name: LSS\_SIZE\_END

Description: The size in bytes for the data "connection's" local

(netperf side) socket send buffer just before the socket

was closed at the end of the test.

Output Name: LSR\_SIZE\_REQ

Description: As with LSS\_SIZE\_REQ but for SO\_RCVBUF.

Output Name: LSR\_SIZE

Description: As with LSS\_SIZE but for SO\_RCVBUF.

Output Name: LSR\_SIZE\_END

Description: As with LSR\_SIZE\_END but for SO\_RCVBUF.

Output Name: LOCAL\_SEND\_SIZE

Description: The size in bytes of the buffers passed in the "send"

calls made at the local (netperf) end.

Output Name: LOCAL\_RECV\_SIZE

Description: The size in bytes of the buffers passed in the "recv"

calls made at the local (netperf) end. Actual values

used in a "recv" call may be less when retrieving

remaining bytes of a response in an "RR" style test.

Output Name: LOCAL\_SEND\_CALLS

Description: The number of "send" calls made by netperf during the

test or the last iteration run when confidence intervals

are requested.

Output Name: LOCAL\_RECV\_CALLS

Description: The number of "recv" calls made by netperf during the

test or the last iteration run when confidence intervals

are requested.

Output Name: LOCAL\_BYTES\_PER\_RECV

Description: The average number of bytes returned by each "recv" call

made by netperf during the test or the last iteration run

when confidence intervals are requested.

Output Name: LOCAL\_BYTES\_PER\_SEND

Description: The average number of bytes sent in each "send" call made

by netperf during the test or the last iteration run when

confidence intervals are requested.

Output Name: LOCAL\_BYTES\_SENT

Description: The number of bytes sent by netperf during the test or

the last iteration run when confidence intervals are

requested.

Output Name: LOCAL\_BYTES\_RECVD

Description: The number of bytes received by netperf during the test

or the last iteration run when confidence intervals are

requested.

Output Name: LOCAL\_BYTES\_XFERD

Description: The sum of LOCAL\_BYTES\_SENT and LOCAL\_BYTES\_RECVD.

Output Name: LOCAL\_SEND\_OFFSET

Description: The offset in bytes from the alignement of the buffers

passed in the "send" calls made by netperf. Controlled

via the global -o option.

Output Name: LOCAL\_RECV\_OFFSET

Description: The offset in bytes from the alignment of the buffers

passed in the "recv" calls made by netperf. Controlled

via the global -o option.

Output Name: LOCAL\_SEND\_ALIGN

Description: The alignment of the buffers passed in the "send" calls

made by netperf. Controlled via the global -a option.

Output Name: LOCAL\_RECV\_ALIGN

Description: The alignement of the buffers passed in the "recv" calls

made by netperf. Controlled via the global -a option.

Output Name: LOCAL\_SEND\_WIDTH

Description: The number of buffers netperf cycles through in "send"

calls. Controlled via the global -W option or by the

ratio of LSS\_SIZE to LOCAL\_SEND\_SIZE when -W is not

specified.

Output Name: LOCAL\_RECV\_WIDTH

Description: The number of buffers netperf cycles through in "recv"

calls. Controlled via the global -W option, or by the

ration of LSR\_SIZE to LOCAL\_RECV\_SIZE when -W is not

specified.

Output Name: LOCAL\_SEND\_DIRTY\_COUNT

Description: The number of bytes netperf writes to in the buffer

before passing it to a "send" call.

Output Name: LOCAL\_RECV\_DIRTY\_COUNT

Output Name: LOCAL\_RECV\_CLEAN\_COUNT

Output Name: LOCAL\_CPU\_UTIL

Description: The CPU utilization (0 to 100% regardless of number of

CPUs) of the local (netperf) system during a test.

Output Name: LOCAL\_CPU\_BIND

Description: The CPU to which netperf has been bound via the global -T

option.

Output Name: LOCAL\_SD

Description: The "service demand" or quantity of CPU consumed per unit

of work completed during the test. Units of microseconds

per transaction when THROUGHPUT untis are "Trans/s" or

microseconds per KB of data transfered otherwise.

Output Name: LOCAL\_CPU\_METHOD

Description: A single character specifying the means by which CPU

utilization was measured on the local (netperf) system.

Output Name: LOCAL\_CPU\_COUNT

Description: The number of (logical) CPUs believed to have been acitve

on the local (netperf) system during the test.

Output Name: LOCAL\_CPU\_PEAK\_UTIL

Descprition: The CPU utilization (0 to 100%) of the most heavily

utilized "CPU" on the local (netperf) system during the

test.

Output Name: LOCAL\_CPU\_PEAK\_ID

Description: The identifier (number) of the most heavily utilized

"CPU" on the local (netperf) system during the test.

Output Name: REMOTE\_CPU\_UTIL

Description: As with LOCAL\_CPU\_UTIL but for the remote (netserver)

system.

Output Name: REMOTE\_CPU\_BIND

Description: As with LOCAL\_CPU\_BIND but for the remote (netserver)

system.

Output Name: REMOTE\_SD

Descritpion: As with LOCAL\_SD but for the remote (netserver) system.

Output Name: REMOTE\_CPU\_METHOD

Description: As with LOCAL\_CPU\_METHOD but for the remote (netserver)

system.

Output Name: REMOTE\_CPU\_COUNT

Description: As with LOCAL\_CPU\_COUNT but for the remote (netserver)

system.

Output Name: REMOTE\_CPU\_PEAK\_UTIL

Description: As with LOCAL\_CPU\_PEAK\_UTIL but for the remote

(netserver) system.

Output Name: REMOTE\_CPU\_PEAK\_ID

Description: As with LOCAL\_CPU\_PEAK\_ID but for the remote (netserver)

system.

Output Name: SD\_UNITS

Description: The units for the reported values of LOCAL\_SD and

REMOTE\_SD. Either microseconds of CPU consumed per

transaction for an "RR" test or microseconds of CPU

consumed per KB transferred otherwise when the throughput

is not in transactions.

Output Name: LOCAL\_NODELAY

Description: 1 if mumble\_NODELAY is set on the local (netperf) socket

for the data "connection." 0 otherwise.

Output Name: LOCAL\_CORK

Descprition: 1 if mumble\_CORK is set on the local (netperf) socket for

the data "connection." 0 otherwise.

All of the following are as for their "L" or "LOCAL" counterparts, but

for the remote or "netserver" end of the data "connection."

Output Name: RSS\_SIZE\_REQ

Output Name: RSS\_SIZE

Output Name: RSS\_SIZE\_END

Output Name: RSR\_SIZE\_REQ

Output Name: RSR\_SIZE

Output Name: RSR\_SIZE\_END

Output Name: REMOTE\_SEND\_SIZE

Output Name: REMOTE\_RECV\_SIZE

Output Name: REMOTE\_SEND\_CALLS

Output Name: REMOTE\_RECV\_CALLS

Output Name: REMOTE\_BYTES\_PER\_RECV

Output Name: REMOTE\_BYTES\_PER\_SEND

Output Name: REMOTE\_BYTES\_SENT

Output Name: REMOTE\_BYTES\_RECVD

Output Name: REMOTE\_BYTES\_XFERD

Output Name: REMOTE\_SEND\_OFFSET

Output Name: REMOTE\_RECV\_OFFSET

Output Name: REMOTE\_SEND\_ALIGN

Output Name: REMOTE\_RECV\_ALIGN

Output Name: REMOTE\_SEND\_WIDTH

Output Name: REMOTE\_RECV\_WIDTH

Output Name: REMOTE\_SEND\_DIRTY\_COUNT

Output Name: REMOTE\_RECV\_DIRTY\_COUNT

Output Name: REMOTE\_RECV\_CLEAN\_COUNT

Output Name: REMOTE\_NODELAY

Output Name: REMOTE\_CORK

Output Name: OUTPUT\_END