portPerfShow

Displays port throughput performance.

SYNOPSIS

portperfshow

portperfshow [[*slot*/]*port1*[-[*slot*/]*port2*]]
[**-tx -rx** | **-tx** | **-rx**] [**-t** *interval*]]

portperfshow --help

DESCRIPTION

Use this command to display throughput information for all ports on a switch or chassis or to display the information for a specified port or port range. Output includes the number of bytes received and transmitted per interval. Throughput values are displayed as either bytes, kilobytes (k), megabytes (m), or gigabytes (g). Values are rounded down.

The data is displayed one column per port plus one column that displays the total for these ports. Results display every second or over a specified interval. Press **Enter**, **Ctrl-c**, or **Ctrl-d** to terminate the command. To run this command one time only, specify an interval of zero.

When executed with the command line arguments **-tx**, **-rx**, or **-tx -rx**, this command displays the transmitter throughput, the receiver throughput, or both. For ports with status of "No_Module,""No_Light," or "No_SigDet" throughput is displayed as 0.

NOTES

The execution of this command is subject to Virtual Fabric or Admin Domain restrictions that may be in place. Refer to Chapter 1, "Using Fabric OS Commands" and Appendix A, "Command Availability" for details.

When FastWrite or Tape Pipelining is enabled, the **portPerfShow** VE link output is different. The acceleration entity (FastWrite or Tape Piplelining) responds by sending XFER_RDY and status well ahead of the actual device's response to the host. The host sends data which is stored near the device and is delivered to the device only when the device is ready. Consequently, the data may be stored near the target for some brief period of time. In this case, the **portPerfShow** output on the VE link may not match the output on the device port.

OPERANDS

This command has the following optional operands:

[*slot*/]*port1*[-[*slot*/]*port2*]
: Displays throughput information for a single port or for a range of ports, relative to the slot number on bladed systems. Port numbers in a range must be separated by a dash (-), for example, 3-5, or 2/0-2/15. Port ranges cannot span slots. Use **switchShow** to display a listing of valid ports. Port operands are optional; if omitted, information for all ports is displayed.

-t *time_interval*
: Specifies the interval, in seconds, between each sample. The default interval is one second. If no interval is specified, the default is used. To run this command one time only, specify an interval of zero.

-tx
: Displays the transmitter throughput.

-rx
: Displays the receiver throughput.

-tx -rx
: Displays the transmitter and receiver throughput.

EXAMPLES To display performance information for all ports at a one second (default) interval:

```
switch:user> portperfshow
   0    1   2   3   4   5   6   7   8   9     10  11  12  13  14  15
==========================================================================
630.4m  0   0   0   0   0   0   0   0   0  630.4m  0   0   0   0   0

16   17     18     19  20  21  22  23  24  25  26  27  28  29  30  31
==========================================================================
0 210.1m 840.5m 210.1m  0   0   0   0   0   0   0   0   0   0   0   0

32   33   34   35   36   37   38   39   Total
================================================
0    0    0    0    0    0    0    0    2.5g

  0    1   2   3   4   5   6   7   8   9     10   11  12  13  14  15
==========================================================================
630.4m 0   0   0   0   0   0   0   0   0 630.4m    0   0   0   0   0

16  17    18    19     20  21  22  23  24  25  26  27  28  29  30  31
==========================================================================
0 210.1m 840.6m 210.1m  0   0   0   0   0   0   0   0   0   0   0   0

32   33   34   35   36   37   38   39   Total
================================================
0    0    0    0    0    0    0    0     2.5g
(output stopped)
```

To display port performance for all ports with an interval of 5 seconds:

```
switch:user> portperfshow -t 5

  0      1   2   3   4   5   6   7   8    9   10  11  12  13  14  15
==========================================================================
 630.4m  0   0   0   0   0   0   0   0  112 630.4m 0   0   0   0   0

16  17    18    19    20  21  22  23  24  25  26  27  28  29  30  31
==========================================================================
0 210.1m 840.6m 210.1m 0 112   0   0   0   0   0   0   0   0   0   0

32   33   34   35   36   37   38   39   Total
================================================
0    0    0    0    0    0    0    0    2.5g

 0      1   2   3   4   5   6   7   8   9    10   11  12  13  14  15
==========================================================================
630.4m  0   0   0   0   0   0   0   0   0  630.4m  0   0   0   0   0

16   17    18    19   20  21  22  23  24  25   26  27  28  29  30  31
==========================================================================
0 210.1m 840.5m 210.1m 0   0   0   0   0   0    0   0   0   0   0   0

32   33   34   35   36   37   38   39  Total
================================================
 0    0    0    0    0    0    0    0   2.5g
(output truncated)
```

To display performance on a single port with at a 5 second interval:

```
switch:user> portperfshow 0 -t 5
  0      Total
=================
 630.4m 630.4m

 0       Total
=================
 630.3m 630.3m
(output truncated)
```

To display transmitter throughput for a single port at a 5 second interval:

```
switch:user> portperfshow 0 -tx -t 5
   0
========
 210.1m
   0
========
 210.1m
(output truncated)
```

To display receiver throughput for a single port at a 5 second interval:

```
switch:user> portperfshow 0 -rx -t 5
  0
========
 420.3m
  0
========
 420.2m
(output truncated)
```

To display port performance on a chassis for range of ports at an interval of 5 seconds:

```
switch:user>  portperfshow 12/0-12/6 -t 5
           0       1       2       3       4       5       6     Total
=============================================================================
slot 12: 840.6m  0       0       0       0       0  630.4m     1.4g
 0       1       2       3       4       5       6     Total
=============================================================================
slot 12: 840.6m  0       0       0       0       0  630.4m     1.4g
 0       1       2       3       4       5       6     Total
=============================================================================
slot 12: 840.6m  0       0       0       0       0  630.4m     1.4g
(output truncated)
```

SEE ALSO portStatsShow