

Traffic Monitoring Commands

This module describes the Cisco IOS XR Software commands to monitor traffic on the router.

For detailed information about monitoring packet drops concepts, configuration tasks, and examples, see the *Traffic Monitoring* chapter in the *System Monitoring Configuration Guide for Cisco 8000 Series Routers*.

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clear controllers npu packet-latency instance

To manually clear the cumulative packet count in the latency histogram bin for all Traffic Class (TC) or each TC since either system bootup or the last clear, use the **clear controllers npu packet-latency instance** command in the XR EXEC mode.

clear controllers npu packet-latency instance *instance-id* { **location** *node-id* | **slice** *slice-id* **IFG** *interface-group-id* **traffic-class** *traffic-class-id* **location** *node-id* }

Syntax Description

instance *instance-id*	Clears the information of all the slice, Inter-Frame Gap (IFG), and TC in the specific instance.
slice *slice-id*	Clears the information of a specific slice id, ranging from 0-7.
IFG *interface-group-id*	Clears the information of a specific interface group id, ranging from 0-1.
traffic-class *traffic-class-id*	Clears the information of a specific traffic class id, ranging from 0-7.
location *node-id*	Clears the information of a specific node. The node-id argument is entered in the *rack/slot/module* notation.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 25.3.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **clear controllers npu packet-latency instance** command manually clears the cumulative packet count in the latency histogram bin for all TC or each TC since either system bootup or the last clear.

Below command manually clears the cumulative packet count in the latency histogram bin of all TC on slice 2, IFG 1, and location 0/2/CPU0 since either system bootup or the last clear:

```
Router# clear controller npu packet-latency instance 0 slice 2 ifg 1 location 0/2/CPU0
```

Below command manually clears the cumulative packet count in the latency histogram bin of a specific TC 6 on slice 2, IFG 1, and location 0/2/CPU0 since either system bootup or the last clear.

```
Router# clear controller npu packet-latency instance 0 slice 2 ifg 1 traffic-class 6 location
 0/2/CPU0
```

Below command manually clears the cumulative packet count in the latency histogram bin of a specific location 0/2/CPU0:

```
Router# clear controller npu packet-latency instance 0 location 0/2/CPU0
```

hw-module profile packet-loss-alert

To enable log message alerts for traffic-impacting NPU interrupts, use the **hw-module profile packet-loss-alert** command in the XR Config mode.

hw-module profile packet-loss-alert { **3Min** | **5Min** }

Syntax Description

3Min	Specifies a 3 minute duration of packet loss to begin generating log messages. There are atleast 10 error interrupts per minute.
5Min	Specifies a 5 minute duration of packet loss to begin generating log messages. There are atleast 10 error interrupts per minute.

Command Default

This feature is disabled by default.

Command Modes

XR Config mode

Command History

Release	Modification
Release 24.1.1	This command was introduced

Usage Guidelines

Only line cards and routers with the Q100, Q200, P100 or G100 based Silicon One ASIC support this feature

Task ID

Task ID	Operation
profile	read, write

Example

Execute the **hw-module profile packet-loss-alert** command to enable system log alerts for packet loss:

```
Router# configure
Router(config)# hw-module profile packet-loss-alert 3Min
Router(config)# commit
```

hw-module profile port-rate-histogram

To enable port rate histogram feature, use the **hw-module profile port-rate-histogram enable** command in XR EXEC mode.

To disable port rate histogram feature, use the **hw-module profile port-rate-histogram disable** command.

hw-module profile port-rate-histogram enable

Syntax Description This command has no keywords or arguments.

Command Default This feature is disabled by default.

Command Modes XR Config mode

Command History

Release	Modification
Release 25.4.1	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
config-services	read, write
profile	read, write

Examples The following example shows how to enable port rate histogram for all ports on location 0/7/CPU0:

```
Router# configure
Router(config)# hw-module profile port-rate-histogram location 0/7/CPU0 enable
Router(config)# commit
```

show drops all

To display the packet drops, use the **show drops all** command in the XR EXEC mode.

show drops all { **commands location** | **location** | **ongoing location** } { *node-id* | **all** }

Syntax Description

commands	Displays commands executed.
location	Specifies location of line-card or route processor.
ongoing	Shows drops occuring since last executed.

Command Default None

Command Modes XR EXEC mode

Command History

Release	Modification
Release 7.3.5	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
cisco-support	read

The **show packet drops all location all** command displays packet drops for all nodes on all locations

```
RP/0/RP0/CPU0:ios#show drops all location all
-----------------------------------------------
Printing Drop Counters for node 0/RP0/CPU0
-----------------------------------------------


-------------------
MODULE arp
-------------------


-------------------
MODULE mac
-------------------


-------------------
MODULE npu_traps
-------------------


Trap Type                                       NPU  Trap  Punt       Punt  Punt  Punt
Configured Hardware   Policer Avg-Pkt Packets             Packets
                                               ID   ID    Dest       VoQ   VLAN  TC   Rate(pps)
  Rate(pps)  Level   Size    Accepted            Dropped
=============================================================================================


UNKNOWN_VLAN_OR_BUNDLE_MEMBER(D*)             0    4    RPLC_CPU    200   1586  0    67
      134        IFG     64      0                  1

-------------------
MODULE voq_drops
-------------------


-------------------
MODULE cef
-------------------


-------------------
MODULE fabric
-------------------


-------------------
MODULE lpts
-------------------


-------------------
MODULE spp
-------------------
```

The **show packet drops all ongoing location** command displays the packet drops since last executed.

```
RP/0/RP0/CPU0:ios#show drops all ongoing location all

-----------------------------------------------
Printing Drop Counters for node 0/RP0/CPU0
-----------------------------------------------


-------------------
MODULE arp
-------------------


-------------------
MODULE mac
-------------------


-------------------
MODULE npu_traps
-------------------


-------------------
MODULE voq_drops
-------------------


-------------------
MODULE cef
-------------------


-------------------
MODULE fabric
-------------------


-------------------
MODULE lpts
-------------------


-------------------
MODULE spp
-------------------
```

show controllers npu debug-utils

To display debug-utils information on controllers npu, use the **show controllers npu debug-utils** command in the XR EXEC mode.

show controllers npu debug-utils { **counters-drops** | **fabric-debug** | **get-counters** | **oq-debug** } **instance** { *instance-id* | *all* } { **location** *node-id* | *path* | *all* }

Syntax Description

counters-drops	Displays information on the ASIC's slice level drop counters.

fabric-debug	Displays information on the fabric debug details.
get-counters	Displays information on the asic's slice level counters.
oq-debug	Displays information on the asic's output queue debug details.
location *node-id*	Displays the information about a specific node. The node-id argument is entered in the *rack/slot/module* notation.
location *all*	Displays information about all nodes

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 24.4.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu debug-utils** command displays ASIC's debug utilities information.

```
Router# show controllers npu debug-utils oq-debug instance all location 0/0/CPU0
Rack/Slot/Asic: 0/0/0
=============================================================================================================
|     # |                    Counter_name                                |         val |
slice | ifg |
=============================================================================================================
|     0 |FC from PDIF to TX-Scheduler per intf                           |           0|
   0|   -1|
|     1 |FC from PDIF to TX-Scheduler for IFG0                           |           0|
   0|    0|
|     2 |FC from PDIF to TX-Scheduler for IFG1                           |           0|
   0|    1|
|     3 |FC from PDOQ to Scheduler per slice                             |           0|
   0|   -1|
|     4 |Slice PDVOQ biggest queue No.                                   |           0|
   0|   -1|
|     5 |Slice PDVOQ biggest queue size BUFFERS                          |           0|
   0|   -1|
|     6 |Slice PDVOQ biggest queue dest device                           |         511|
   0|   -1|
```

```
|     7 |Slice PDVOQ biggest queue dest slice                          |             0|
   0|   -1|
|     8 |Slice PDVOQ biggest queue dest ifg                            |             1|
   0|   -1|
|     9 |Slice PDVOQ biggest queue dest port                           |            20|
   0|   -1|
|    10 |Slice PDVOQ biggest queue VSC                                 |             0|
   0|   -1|
|    11 |Slice PDOQ biggest queue No.                                  |             0|
   0|   -1|
|    12 |Slice PDOQ biggest queue size BYTES                           |             0|
   0|   -1|
|    13 |Slice PDOQ Delete fifo watermark BTYES                        |             0|
   0|   -1|
|    14 |TX fifo largest size port No.                                 |             0|
   0|    0|
|    15 |TX fifo largest size WORDS                                    |             0|
   0|    0|
|    16 |TX fifo largest size port No.                                 |             0|
   0|    1|
|    17 |TX fifo largest size WORDS                                    |             0|
   0|    1|
|    18 |RX fifo largest size port No.                                 |             0|
   0|    0|
|    19 |RX fifo largest size WORDS                                    |             0|
   0|    0|
|    20 |RX fifo largest size port No.                                 |             0|
   0|    1|
|    21 |RX fifo largest size WORDS                                    |             0|
   0|    1|
|    22 |FC from PDIF to TX-Scheduler per intf                         |             0|
   1|   -1|
|    23 |FC from PDIF to TX-Scheduler for IFG0                         |             0|
   1|    0|
|    24 |FC from PDIF to TX-Scheduler for IFG1                         |             0|
   1|    1|
|    25 |FC from PDOQ to Scheduler per slice                           |             0|
   1|   -1|
|    26 |Slice PDVOQ biggest queue No.                                 |             0|
   1|   -1|
|    27 |Slice PDVOQ biggest queue size BUFFERS                        |             0|
   1|   -1|
|    28 |Slice PDVOQ biggest queue dest device                         |           511|
   1|   -1|
|    29 |Slice PDVOQ biggest queue dest slice                          |             0|
   1|   -1|
|    30 |Slice PDVOQ biggest queue dest ifg                            |             1|
   1|   -1|
|    31 |Slice PDVOQ biggest queue dest port                           |            20|
   1|   -1|
|    32 |Slice PDVOQ biggest queue VSC                                 |            16|
   1|   -1|
|    33 |Slice PDOQ biggest queue No.                                  |             0|
   1|   -1|
|    34 |Slice PDOQ biggest queue size BYTES                           |             0|
   1|   -1|
|    35 |Slice PDOQ Delete fifo watermark BTYES                        |             0|
   1|   -1|
|    36 |TX fifo largest size port No.                                 |             0|
   1|    0|
|    37 |TX fifo largest size WORDS                                    |             0|
   1|    0|
|    38 |TX fifo largest size port No.                                 |             0|
   1|    1|
```

```
|    39 |TX fifo largest size WORDS                                  |             0|
   1|    1|
|    40 |RX fifo largest size port No.                               |             0|
   1|    0|
|    41 |RX fifo largest size WORDS                                  |             0|
   1|    0|
|    42 |RX fifo largest size port No.                               |             0|
   1|    1|
|    43 |RX fifo largest size WORDS                                  |             0|
   1|    1|
|    44 |FC from PDIF to TX-Scheduler per intf                       |             0|
   2|   -1|
|    45 |FC from PDIF to TX-Scheduler for IFG0                       |             0|
   2|    0|
|    46 |FC from PDIF to TX-Scheduler for IFG1                       |             0|
   2|    1|
|    47 |FC from PDOQ to Scheduler per slice                         |             0|
   2|   -1|
|    48 |Slice PDVOQ biggest queue No.                               |             0|
   2|   -1|
|    49 |Slice PDVOQ biggest queue size BUFFERS                      |             0|
   2|   -1|
|    50 |Slice PDVOQ biggest queue dest device                       |           511|
   2|   -1|
|    51 |Slice PDVOQ biggest queue dest slice                        |             0|
   2|   -1|
|    52 |Slice PDVOQ biggest queue dest ifg                          |             1|
   2|   -1|
|    53 |Slice PDVOQ biggest queue dest port                         |            20|
   2|   -1|
|    54 |Slice PDVOQ biggest queue VSC                               |            32|
   2|   -1|
|    55 |Slice PDOQ biggest queue No.                                |             0|
   2|   -1|
|    56 |Slice PDOQ biggest queue size BYTES                         |             0|
   2|   -1|
|    57 |Slice PDOQ Delete fifo watermark BTYES                      |             0|
   2|   -1|
|    58 |TX fifo largest size port No.                               |             0|
   2|    0|
|    59 |TX fifo largest size WORDS                                  |             0|
   2|    0|
|    60 |TX fifo largest size port No.                               |             0|
   2|    1|
|    61 |TX fifo largest size WORDS                                  |             0|
   2|    1|
|    62 |RX fifo largest size port No.                               |             0|
   2|    0|
|    63 |RX fifo largest size WORDS                                  |             0|
   2|    0|
|    64 |RX fifo largest size port No.                               |             0|
   2|    1|
|    65 |RX fifo largest size WORDS                                  |             0|
   2|    1|
|    66 |FC from PDIF to TX-Scheduler per intf                       |             0|
   3|   -1|
|    67 |FC from PDIF to TX-Scheduler for IFG0                       |             0|
   3|    0|
|    68 |FC from PDIF to TX-Scheduler for IFG1                       |             0|
   3|    1|
|    69 |FC from PDOQ to Scheduler per slice                         |             0|
   3|   -1|
|    70 |Slice PDVOQ biggest queue No.                               |             0|
   3|   -1|
```

```
|    71 |Slice PDVOQ biggest queue size BUFFERS                    |             0|
   3|   -1|
|    72 |Slice PDVOQ biggest queue dest device                     |           511|
   3|   -1|
|    73 |Slice PDVOQ biggest queue dest slice                      |             0|
   3|   -1|
|    74 |Slice PDVOQ biggest queue dest ifg                        |             0|
   3|   -1|
|    75 |Slice PDVOQ biggest queue dest port                       |             0|
   3|   -1|
|    76 |Slice PDVOQ biggest queue VSC                             |             0|
   3|   -1|
|    77 |Slice PDOQ biggest queue No.                              |             0|
   3|   -1|
|    78 |Slice PDOQ biggest queue size BYTES                       |             0|
   3|   -1|
|    79 |Slice PDOQ Delete fifo watermark BTYES                    |             0|
   3|   -1|
|    80 |TX fifo largest size port No.                             |             0|
   3|    0|
|    81 |TX fifo largest size WORDS                                |             0|
   3|    0|
|    82 |TX fifo largest size port No.                             |             0|
   3|    1|
|    83 |TX fifo largest size WORDS                                |             0|
   3|    1|
|    84 |RX fifo largest size port No.                             |             0|
   3|    0|
|    85 |RX fifo largest size WORDS                                |             0|
   3|    0|
|    86 |RX fifo largest size port No.                             |             0|
   3|    1|
|    87 |RX fifo largest size WORDS                                |             0|
   3|    1|
|    88 |FC from PDIF to TX-Scheduler per intf                     |             0|
   4|   -1|
|    89 |FC from PDIF to TX-Scheduler for IFG0                     |             0|
   4|    0|
|    90 |FC from PDIF to TX-Scheduler for IFG1                     |             0|
   4|    1|
|    91 |FC from PDOQ to Scheduler per slice                       |             0|
   4|   -1|
|    92 |Slice PDVOQ biggest queue No.                             |             0|
   4|   -1|
|    93 |Slice PDVOQ biggest queue size BUFFERS                    |             0|
   4|   -1|
|    94 |Slice PDVOQ biggest queue dest device                     |           511|
   4|   -1|
|    95 |Slice PDVOQ biggest queue dest slice                      |             0|
   4|   -1|
|    96 |Slice PDVOQ biggest queue dest ifg                        |             0|
   4|   -1|
|    97 |Slice PDVOQ biggest queue dest port                       |             0|
   4|   -1|
|    98 |Slice PDVOQ biggest queue VSC                             |             0|
   4|   -1|
|    99 |Slice PDOQ biggest queue No.                              |             0|
   4|   -1|
|   100 |Slice PDOQ biggest queue size BYTES                       |             0|
   4|   -1|
|   101 |Slice PDOQ Delete fifo watermark BTYES                    |             0|
   4|   -1|
|   102 |TX fifo largest size port No.                             |             0|
   4|    0|
```

```
|   103 |TX fifo largest size WORDS                                  |             0|
   4|    0|
|   104 |TX fifo largest size port No.                               |             0|
   4|    1|
|   105 |TX fifo largest size WORDS                                  |             0|
   4|    1|
|   106 |RX fifo largest size port No.                               |             0|
   4|    0|
|   107 |RX fifo largest size WORDS                                  |             0|
   4|    0|
|   108 |RX fifo largest size port No.                               |             0|
   4|    1|
|   109 |RX fifo largest size WORDS                                  |             0|
   4|    1|
|   110 |FC from PDIF to TX-Scheduler per intf                       |             0|
   5|   -1|
|   111 |FC from PDIF to TX-Scheduler for IFG0                       |             0|
   5|    0|
|   112 |FC from PDIF to TX-Scheduler for IFG1                       |             0|
   5|    1|
|   113 |FC from PDOQ to Scheduler per slice                         |             0|
   5|   -1|
|   114 |Slice PDVOQ biggest queue No.                               |             0|
   5|   -1|
|   115 |Slice PDVOQ biggest queue size BUFFERS                      |             0|
   5|   -1|
|   116 |Slice PDVOQ biggest queue dest device                       |           511|
   5|   -1|
|   117 |Slice PDVOQ biggest queue dest slice                        |             0|
   5|   -1|
|   118 |Slice PDVOQ biggest queue dest ifg                          |             0|
   5|   -1|
|   119 |Slice PDVOQ biggest queue dest port                         |             0|
   5|   -1|
|   120 |Slice PDVOQ biggest queue VSC                               |            16|
   5|   -1|
|   121 |Slice PDOQ biggest queue No.                                |             0|
   5|   -1|
|   122 |Slice PDOQ biggest queue size BYTES                         |             0|
   5|   -1|
|   123 |Slice PDOQ Delete fifo watermark BTYES                      |             0|
   5|   -1|
|   124 |TX fifo largest size port No.                               |             0|
   5|    0|
|   125 |TX fifo largest size WORDS                                  |             0|
   5|    0|
|   126 |TX fifo largest size port No.                               |             0|
   5|    1|
|   127 |TX fifo largest size WORDS                                  |             0|
   5|    1|
|   128 |RX fifo largest size port No.                               |             0|
   5|    0|
|   129 |RX fifo largest size WORDS                                  |             0|
   5|    0|
|   130 |RX fifo largest size port No.                               |             0|
   5|    1|
|   131 |RX fifo largest size WORDS                                  |             0|
   5|    1|
|   132 |TXCGM Watermark Total UNICAST BUFFERS(C+D)                  |             0|
  -1|   -1|
|   133 |TXCGM Watermark Total UNICAST Local BUFFERS(C)              |             0|
  -1|   -1|
|   134 |TXCGM Watermark Total UNICAST Remote BUFFERS(D)             |             0|
  -1|   -1|
```

```
|   135 |TXCGM Watermark Total PDs                                  |             0|
  -1|   -1|
|   136 |TXCGM Watermark Total deleted PDs                          |             0|
  -1|   -1|
|   137 |TXCGM Watermark Total Unicast PDs                          |             0|
  -1|   -1|
|   138 |TXCGM Watermark Total Multicast PDs                        |             0|
  -1|   -1|
|   139 |TXCGM Watermark Total Fabric PDs                           |             0|
  -1|   -1|
|   140 |TXCGM Watermark Total MS-VOQs PDs                          |             0|
  -1|   -1|
|   141 |TXCGM Watermark Total MS-OQs PDs                           |             0|
  -1|   -1|
|   142 |SMS Min total free BUFFERS                                 |             0|
  -1|   -1|
|   143 |SMS Max occupied BUFFERS                                   |         97920|
  -1|   -1|
|   144 |SMS Min free BUFFERS                                       |             0|
  -1|   -1|
|   145 |SMS Min free buffers bank idx                              |             0|
  -1|   -1|
|   146 |SMS Max free BUFFERS                                       |             0|
  -1|   -1|
|   147 |SMS Max free buffers bank idx                              |             0|
  -1|   -1|
|   148 |SMS Max FDOQ2SMS FIFO size                                 |             0|
  -1|   -1|
|   149 |SMS Max FDOQ2SMS FIFO intf                                 |             0|
  -1|   -1|
|   150 |number of non-empty Qs                                     |             0|
  -1|   -1|
|   151 |Active port srd speed port_id 0                            |             0|
   0|    0|
|   152 |SDK device frequency                                       |             0|
  -1|   -1|
Rack/Slot/Asic: 0/0/1
================================================================================================
|     # |                    Counter_name                           |          val |
slice | ifg |
================================================================================================
|     0 |FC from PDIF to TX-Scheduler per intf                      |             0|
   0|   -1|
|     1 |FC from PDIF to TX-Scheduler for IFG0                      |             0|
   0|    0|
|     2 |FC from PDIF to TX-Scheduler for IFG1                      |             0|
   0|    1|
|     3 |FC from PDOQ to Scheduler per slice                        |             0|
   0|   -1|
|     4 |Slice PDVOQ biggest queue No.                              |             0|
   0|   -1|
|     5 |Slice PDVOQ biggest queue size BUFFERS                     |             0|
   0|   -1|
|     6 |Slice PDVOQ biggest queue dest device                      |           511|
   0|   -1|
|     7 |Slice PDVOQ biggest queue dest slice                       |             0|
   0|   -1|
|     8 |Slice PDVOQ biggest queue dest ifg                         |             1|
   0|   -1|
|     9 |Slice PDVOQ biggest queue dest port                        |            20|
   0|   -1|
|    10 |Slice PDVOQ biggest queue VSC                              |             0|
   0|   -1|
|    11 |Slice PDOQ biggest queue No.                               |             0|
```

```
   0|   -1|
|    12 |Slice PDOQ biggest queue size BYTES                          |             0|
   0|   -1|
|    13 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   0|   -1|
|    14 |TX fifo largest size port No.                                |             0|
   0|    0|
|    15 |TX fifo largest size WORDS                                   |             0|
   0|    0|
|    16 |TX fifo largest size port No.                                |             0|
   0|    1|
|    17 |TX fifo largest size WORDS                                   |             0|
   0|    1|
|    18 |RX fifo largest size port No.                                |             0|
   0|    0|
|    19 |RX fifo largest size WORDS                                   |             0|
   0|    0|
|    20 |RX fifo largest size port No.                                |             0|
   0|    1|
|    21 |RX fifo largest size WORDS                                   |             0|
   0|    1|
|    22 |FC from PDIF to TX-Scheduler per intf                        |             0|
   1|   -1|
|    23 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   1|    0|
|    24 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   1|    1|
|    25 |FC from PDOQ to Scheduler per slice                          |             0|
   1|   -1|
|    26 |Slice PDVOQ biggest queue No.                                |             0|
   1|   -1|
|    27 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   1|   -1|
|    28 |Slice PDVOQ biggest queue dest device                        |           511|
   1|   -1|
|    29 |Slice PDVOQ biggest queue dest slice                         |             0|
   1|   -1|
|    30 |Slice PDVOQ biggest queue dest ifg                           |             1|
   1|   -1|
|    31 |Slice PDVOQ biggest queue dest port                          |            20|
   1|   -1|
|    32 |Slice PDVOQ biggest queue VSC                                |            16|
   1|   -1|
|    33 |Slice PDOQ biggest queue No.                                 |             0|
   1|   -1|
|    34 |Slice PDOQ biggest queue size BYTES                          |             0|
   1|   -1|
|    35 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   1|   -1|
|    36 |TX fifo largest size port No.                                |             0|
   1|    0|
|    37 |TX fifo largest size WORDS                                   |             0|
   1|    0|
|    38 |TX fifo largest size port No.                                |             0|
   1|    1|
|    39 |TX fifo largest size WORDS                                   |             0|
   1|    1|
|    40 |RX fifo largest size port No.                                |             0|
   1|    0|
|    41 |RX fifo largest size WORDS                                   |             0|
   1|    0|
|    42 |RX fifo largest size port No.                                |             0|
   1|    1|
|    43 |RX fifo largest size WORDS                                   |             0|
```

```
   1|    1|
|    44 |FC from PDIF to TX-Scheduler per intf                    |             0|
   2|   -1|
|    45 |FC from PDIF to TX-Scheduler for IFG0                    |             0|
   2|    0|
|    46 |FC from PDIF to TX-Scheduler for IFG1                    |             0|
   2|    1|
|    47 |FC from PDOQ to Scheduler per slice                      |             0|
   2|   -1|
|    48 |Slice PDVOQ biggest queue No.                            |             0|
   2|   -1|
|    49 |Slice PDVOQ biggest queue size BUFFERS                   |             0|
   2|   -1|
|    50 |Slice PDVOQ biggest queue dest device                    |           511|
   2|   -1|
|    51 |Slice PDVOQ biggest queue dest slice                     |             0|
   2|   -1|
|    52 |Slice PDVOQ biggest queue dest ifg                       |             1|
   2|   -1|
|    53 |Slice PDVOQ biggest queue dest port                      |            20|
   2|   -1|
|    54 |Slice PDVOQ biggest queue VSC                            |            32|
   2|   -1|
|    55 |Slice PDOQ biggest queue No.                             |             0|
   2|   -1|
|    56 |Slice PDOQ biggest queue size BYTES                      |             0|
   2|   -1|
|    57 |Slice PDOQ Delete fifo watermark BTYES                   |             0|
   2|   -1|
|    58 |TX fifo largest size port No.                            |             0|
   2|    0|
|    59 |TX fifo largest size WORDS                               |             0|
   2|    0|
|    60 |TX fifo largest size port No.                            |             0|
   2|    1|
|    61 |TX fifo largest size WORDS                               |             0|
   2|    1|
|    62 |RX fifo largest size port No.                            |             0|
   2|    0|
|    63 |RX fifo largest size WORDS                               |             0|
   2|    0|
|    64 |RX fifo largest size port No.                            |             0|
   2|    1|
|    65 |RX fifo largest size WORDS                               |             0|
   2|    1|
|    66 |FC from PDIF to TX-Scheduler per intf                    |             0|
   3|   -1|
|    67 |FC from PDIF to TX-Scheduler for IFG0                    |             0|
   3|    0|
|    68 |FC from PDIF to TX-Scheduler for IFG1                    |             0|
   3|    1|
|    69 |FC from PDOQ to Scheduler per slice                      |             0|
   3|   -1|
|    70 |Slice PDVOQ biggest queue No.                            |             0|
   3|   -1|
|    71 |Slice PDVOQ biggest queue size BUFFERS                   |             0|
   3|   -1|
|    72 |Slice PDVOQ biggest queue dest device                    |           511|
   3|   -1|
|    73 |Slice PDVOQ biggest queue dest slice                     |             0|
   3|   -1|
|    74 |Slice PDVOQ biggest queue dest ifg                       |             0|
   3|   -1|
|    75 |Slice PDVOQ biggest queue dest port                      |             0|
```

```
   3|   -1|
|    76 |Slice PDVOQ biggest queue VSC                          |             0|
   3|   -1|
|    77 |Slice PDOQ biggest queue No.                           |             0|
   3|   -1|
|    78 |Slice PDOQ biggest queue size BYTES                    |             0|
   3|   -1|
|    79 |Slice PDOQ Delete fifo watermark BTYES                 |             0|
   3|   -1|
|    80 |TX fifo largest size port No.                          |             0|
   3|    0|
|    81 |TX fifo largest size WORDS                             |             0|
   3|    0|
|    82 |TX fifo largest size port No.                          |             0|
   3|    1|
|    83 |TX fifo largest size WORDS                             |             0|
   3|    1|
|    84 |RX fifo largest size port No.                          |             0|
   3|    0|
|    85 |RX fifo largest size WORDS                             |             0|
   3|    0|
|    86 |RX fifo largest size port No.                          |             0|
   3|    1|
|    87 |RX fifo largest size WORDS                             |             0|
   3|    1|
|    88 |FC from PDIF to TX-Scheduler per intf                  |             0|
   4|   -1|
|    89 |FC from PDIF to TX-Scheduler for IFG0                  |             0|
   4|    0|
|    90 |FC from PDIF to TX-Scheduler for IFG1                  |             0|
   4|    1|
|    91 |FC from PDOQ to Scheduler per slice                    |             0|
   4|   -1|
|    92 |Slice PDVOQ biggest queue No.                          |             0|
   4|   -1|
|    93 |Slice PDVOQ biggest queue size BUFFERS                 |             0|
   4|   -1|
|    94 |Slice PDVOQ biggest queue dest device                  |           511|
   4|   -1|
|    95 |Slice PDVOQ biggest queue dest slice                   |             0|
   4|   -1|
|    96 |Slice PDVOQ biggest queue dest ifg                     |             0|
   4|   -1|
|    97 |Slice PDVOQ biggest queue dest port                    |             0|
   4|   -1|
|    98 |Slice PDVOQ biggest queue VSC                          |             0|
   4|   -1|
|    99 |Slice PDOQ biggest queue No.                           |             0|
   4|   -1|
|   100 |Slice PDOQ biggest queue size BYTES                    |             0|
   4|   -1|
|   101 |Slice PDOQ Delete fifo watermark BTYES                 |             0|
   4|   -1|
|   102 |TX fifo largest size port No.                          |             0|
   4|    0|
|   103 |TX fifo largest size WORDS                             |             0|
   4|    0|
|   104 |TX fifo largest size port No.                          |             0|
   4|    1|
|   105 |TX fifo largest size WORDS                             |             0|
   4|    1|
|   106 |RX fifo largest size port No.                          |             0|
   4|    0|
|   107 |RX fifo largest size WORDS                             |             0|
```

```
   4|    0|
|   108 |RX fifo largest size port No.                                |            0|
   4|    1|
|   109 |RX fifo largest size WORDS                                   |            0|
   4|    1|
|   110 |FC from PDIF to TX-Scheduler per intf                        |            0|
   5|   -1|
|   111 |FC from PDIF to TX-Scheduler for IFG0                        |            0|
   5|    0|
|   112 |FC from PDIF to TX-Scheduler for IFG1                        |            0|
   5|    1|
|   113 |FC from PDOQ to Scheduler per slice                          |            0|
   5|   -1|
|   114 |Slice PDVOQ biggest queue No.                                |            0|
   5|   -1|
|   115 |Slice PDVOQ biggest queue size BUFFERS                       |            0|
   5|   -1|
|   116 |Slice PDVOQ biggest queue dest device                        |          511|
   5|   -1|
|   117 |Slice PDVOQ biggest queue dest slice                         |            0|
   5|   -1|
|   118 |Slice PDVOQ biggest queue dest ifg                           |            0|
   5|   -1|
|   119 |Slice PDVOQ biggest queue dest port                          |            0|
   5|   -1|
|   120 |Slice PDVOQ biggest queue VSC                                |           16|
   5|   -1|
|   121 |Slice PDOQ biggest queue No.                                 |            0|
   5|   -1|
|   122 |Slice PDOQ biggest queue size BYTES                          |            0|
   5|   -1|
|   123 |Slice PDOQ Delete fifo watermark BTYES                       |            0|
   5|   -1|
|   124 |TX fifo largest size port No.                                |            0|
   5|    0|
|   125 |TX fifo largest size WORDS                                   |            0|
   5|    0|
|   126 |TX fifo largest size port No.                                |            0|
   5|    1|
|   127 |TX fifo largest size WORDS                                   |            0|
   5|    1|
|   128 |RX fifo largest size port No.                                |            0|
   5|    0|
|   129 |RX fifo largest size WORDS                                   |            0|
   5|    0|
|   130 |RX fifo largest size port No.                                |            0|
   5|    1|
|   131 |RX fifo largest size WORDS                                   |            0|
   5|    1|
|   132 |TXCGM Watermark Total UNICAST BUFFERS(C+D)                   |            0|
  -1|   -1|
|   133 |TXCGM Watermark Total UNICAST Local BUFFERS(C)               |            0|
  -1|   -1|
|   134 |TXCGM Watermark Total UNICAST Remote BUFFERS(D)              |            0|
  -1|   -1|
|   135 |TXCGM Watermark Total PDs                                    |            0|
  -1|   -1|
|   136 |TXCGM Watermark Total deleted PDs                            |            0|
  -1|   -1|
|   137 |TXCGM Watermark Total Unicast PDs                            |            0|
  -1|   -1|
|   138 |TXCGM Watermark Total Multicast PDs                          |            0|
  -1|   -1|
|   139 |TXCGM Watermark Total Fabric PDs                             |            0|
```

```
  -1|   -1|
|   140 |TXCGM Watermark Total MS-VOQs PDs                                |             0|
  -1|   -1|
|   141 |TXCGM Watermark Total MS-OQs PDs                                 |             0|
  -1|   -1|
|   142 |SMS Min total free BUFFERS                                       |             0|
  -1|   -1|
|   143 |SMS Max occupied BUFFERS                                         |         97920|
  -1|   -1|
|   144 |SMS Min free BUFFERS                                             |             0|
  -1|   -1|
|   145 |SMS Min free buffers bank idx                                    |             0|
  -1|   -1|
|   146 |SMS Max free BUFFERS                                             |             0|
  -1|   -1|
|   147 |SMS Max free buffers bank idx                                    |             0|
  -1|   -1|
|   148 |SMS Max FDOQ2SMS FIFO size                                       |             0|
  -1|   -1|
|   149 |SMS Max FDOQ2SMS FIFO intf                                       |             0|
  -1|   -1|
|   150 |number of non-empty Qs                                           |             0|
  -1|   -1|
|   151 |Active port srd speed port_id 0                                  |             0|
   0|    0|
|   152 |SDK device frequency                                             |             0|
  -1|   -1|
Rack/Slot/Asic: 0/FC0/0
=================================================================================================
|     # |                     Counter_name                                |         val |
slice | ifg |
=================================================================================================
|     0 |FC from PDIF to TX-Scheduler per intf                            |             0|
   0|   -1|
|     1 |FC from PDIF to TX-Scheduler for IFG0                            |             0|
   0|    0|
|     2 |FC from PDIF to TX-Scheduler for IFG1                            |             0|
   0|    1|
|     3 |FC from PDOQ to Scheduler per slice                              |             0|
   0|   -1|
|     4 |Slice PDVOQ biggest queue No.                                    |             0|
   0|   -1|
|     5 |Slice PDVOQ biggest queue size BUFFERS                           |             0|
   0|   -1|
|     6 |Slice PDVOQ biggest queue dest device                            |           511|
   0|   -1|
|     7 |Slice PDVOQ biggest queue dest slice                             |             0|
   0|   -1|
|     8 |Slice PDVOQ biggest queue dest ifg                               |             0|
   0|   -1|
|     9 |Slice PDVOQ biggest queue dest port                              |             0|
   0|   -1|
|    10 |Slice PDVOQ biggest queue VSC                                    |             0|
   0|   -1|
|    11 |Slice PDOQ biggest queue No.                                     |             0|
   0|   -1|
|    12 |Slice PDOQ biggest queue size BYTES                              |             0|
   0|   -1|
|    13 |Slice PDOQ Delete fifo watermark BTYES                           |             0|
   0|   -1|
|    14 |TX fifo largest size port No.                                    |             0|
   0|    0|
|    15 |TX fifo largest size WORDS                                       |             0|
   0|    0|
```

```
|    16 |TX fifo largest size port No.                                |             0|
   0|    1|
|    17 |TX fifo largest size WORDS                                   |             0|
   0|    1|
|    18 |RX fifo largest size port No.                                |             0|
   0|    0|
|    19 |RX fifo largest size WORDS                                   |             0|
   0|    0|
|    20 |RX fifo largest size port No.                                |             0|
   0|    1|
|    21 |RX fifo largest size WORDS                                   |             0|
   0|    1|
|    22 |FC from PDIF to TX-Scheduler per intf                        |             0|
   1|   -1|
|    23 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   1|    0|
|    24 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   1|    1|
|    25 |FC from PDOQ to Scheduler per slice                          |             0|
   1|   -1|
|    26 |Slice PDVOQ biggest queue No.                                |             0|
   1|   -1|
|    27 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   1|   -1|
|    28 |Slice PDVOQ biggest queue dest device                        |           511|
   1|   -1|
|    29 |Slice PDVOQ biggest queue dest slice                         |             0|
   1|   -1|
|    30 |Slice PDVOQ biggest queue dest ifg                           |             0|
   1|   -1|
|    31 |Slice PDVOQ biggest queue dest port                          |             0|
   1|   -1|
|    32 |Slice PDVOQ biggest queue VSC                                |             0|
   1|   -1|
|    33 |Slice PDOQ biggest queue No.                                 |             0|
   1|   -1|
|    34 |Slice PDOQ biggest queue size BYTES                          |             0|
   1|   -1|
|    35 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   1|   -1|
|    36 |TX fifo largest size port No.                                |             0|
   1|    0|
|    37 |TX fifo largest size WORDS                                   |             0|
   1|    0|
|    38 |TX fifo largest size port No.                                |             0|
   1|    1|
|    39 |TX fifo largest size WORDS                                   |             0|
   1|    1|
|    40 |RX fifo largest size port No.                                |             0|
   1|    0|
|    41 |RX fifo largest size WORDS                                   |             0|
   1|    0|
|    42 |RX fifo largest size port No.                                |             0|
   1|    1|
|    43 |RX fifo largest size WORDS                                   |             0|
   1|    1|
|    44 |FC from PDIF to TX-Scheduler per intf                        |             0|
   2|   -1|
|    45 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   2|    0|
|    46 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   2|    1|
|    47 |FC from PDOQ to Scheduler per slice                          |             0|
   2|   -1|
```

```
|    48 |Slice PDVOQ biggest queue No.                                |             0|
   2|   -1|
|    49 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   2|   -1|
|    50 |Slice PDVOQ biggest queue dest device                        |           511|
   2|   -1|
|    51 |Slice PDVOQ biggest queue dest slice                         |             0|
   2|   -1|
|    52 |Slice PDVOQ biggest queue dest ifg                           |             0|
   2|   -1|
|    53 |Slice PDVOQ biggest queue dest port                          |             0|
   2|   -1|
|    54 |Slice PDVOQ biggest queue VSC                                |             0|
   2|   -1|
|    55 |Slice PDOQ biggest queue No.                                 |             0|
   2|   -1|
|    56 |Slice PDOQ biggest queue size BYTES                          |             0|
   2|   -1|
|    57 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   2|   -1|
|    58 |TX fifo largest size port No.                                |             0|
   2|    0|
|    59 |TX fifo largest size WORDS                                   |             0|
   2|    0|
|    60 |TX fifo largest size port No.                                |             0|
   2|    1|
|    61 |TX fifo largest size WORDS                                   |             0|
   2|    1|
|    62 |RX fifo largest size port No.                                |             0|
   2|    0|
|    63 |RX fifo largest size WORDS                                   |             0|
   2|    0|
|    64 |RX fifo largest size port No.                                |             0|
   2|    1|
|    65 |RX fifo largest size WORDS                                   |             0|
   2|    1|
|    66 |FC from PDIF to TX-Scheduler per intf                        |             0|
   3|   -1|
|    67 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   3|    0|
|    68 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   3|    1|
|    69 |FC from PDOQ to Scheduler per slice                          |             0|
   3|   -1|
|    70 |Slice PDVOQ biggest queue No.                                |             0|
   3|   -1|
|    71 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   3|   -1|
|    72 |Slice PDVOQ biggest queue dest device                        |           511|
   3|   -1|
|    73 |Slice PDVOQ biggest queue dest slice                         |             0|
   3|   -1|
|    74 |Slice PDVOQ biggest queue dest ifg                           |             0|
   3|   -1|
|    75 |Slice PDVOQ biggest queue dest port                          |             0|
   3|   -1|
|    76 |Slice PDVOQ biggest queue VSC                                |             0|
   3|   -1|
|    77 |Slice PDOQ biggest queue No.                                 |             0|
   3|   -1|
|    78 |Slice PDOQ biggest queue size BYTES                          |             0|
   3|   -1|
|    79 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   3|   -1|
```

```
|    80 |TX fifo largest size port No.                                |             0|
   3|    0|
|    81 |TX fifo largest size WORDS                                   |             0|
   3|    0|
|    82 |TX fifo largest size port No.                                |             0|
   3|    1|
|    83 |TX fifo largest size WORDS                                   |             0|
   3|    1|
|    84 |RX fifo largest size port No.                                |             0|
   3|    0|
|    85 |RX fifo largest size WORDS                                   |             0|
   3|    0|
|    86 |RX fifo largest size port No.                                |             0|
   3|    1|
|    87 |RX fifo largest size WORDS                                   |             0|
   3|    1|
|    88 |FC from PDIF to TX-Scheduler per intf                        |             0|
   4|   -1|
|    89 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   4|    0|
|    90 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   4|    1|
|    91 |FC from PDOQ to Scheduler per slice                          |             0|
   4|   -1|
|    92 |Slice PDVOQ biggest queue No.                                |             0|
   4|   -1|
|    93 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   4|   -1|
|    94 |Slice PDVOQ biggest queue dest device                        |           511|
   4|   -1|
|    95 |Slice PDVOQ biggest queue dest slice                         |             0|
   4|   -1|
|    96 |Slice PDVOQ biggest queue dest ifg                           |             0|
   4|   -1|
|    97 |Slice PDVOQ biggest queue dest port                          |             0|
   4|   -1|
|    98 |Slice PDVOQ biggest queue VSC                                |             0|
   4|   -1|
|    99 |Slice PDOQ biggest queue No.                                 |             0|
   4|   -1|
|   100 |Slice PDOQ biggest queue size BYTES                          |             0|
   4|   -1|
|   101 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   4|   -1|
|   102 |TX fifo largest size port No.                                |             0|
   4|    0|
|   103 |TX fifo largest size WORDS                                   |             0|
   4|    0|
|   104 |TX fifo largest size port No.                                |             0|
   4|    1|
|   105 |TX fifo largest size WORDS                                   |             0|
   4|    1|
|   106 |RX fifo largest size port No.                                |             0|
   4|    0|
|   107 |RX fifo largest size WORDS                                   |             0|
   4|    0|
|   108 |RX fifo largest size port No.                                |             0|
   4|    1|
|   109 |RX fifo largest size WORDS                                   |             0|
   4|    1|
|   110 |FC from PDIF to TX-Scheduler per intf                        |             0|
   5|   -1|
|   111 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   5|    0|
```

```
|   112 |FC from PDIF to TX-Scheduler for IFG1                          |             0|
   5|    1|
|   113 |FC from PDOQ to Scheduler per slice                            |             0|
   5|   -1|
|   114 |Slice PDVOQ biggest queue No.                                  |             0|
   5|   -1|
|   115 |Slice PDVOQ biggest queue size BUFFERS                         |             0|
   5|   -1|
|   116 |Slice PDVOQ biggest queue dest device                          |           511|
   5|   -1|
|   117 |Slice PDVOQ biggest queue dest slice                           |             0|
   5|   -1|
|   118 |Slice PDVOQ biggest queue dest ifg                             |             0|
   5|   -1|
|   119 |Slice PDVOQ biggest queue dest port                            |             0|
   5|   -1|
|   120 |Slice PDVOQ biggest queue VSC                                  |             0|
   5|   -1|
|   121 |Slice PDOQ biggest queue No.                                   |             0|
   5|   -1|
|   122 |Slice PDOQ biggest queue size BYTES                            |             0|
   5|   -1|
|   123 |Slice PDOQ Delete fifo watermark BTYES                         |             0|
   5|   -1|
|   124 |TX fifo largest size port No.                                  |             0|
   5|    0|
|   125 |TX fifo largest size WORDS                                     |             0|
   5|    0|
|   126 |TX fifo largest size port No.                                  |             0|
   5|    1|
|   127 |TX fifo largest size WORDS                                     |             0|
   5|    1|
|   128 |RX fifo largest size port No.                                  |             0|
   5|    0|
|   129 |RX fifo largest size WORDS                                     |             0|
   5|    0|
|   130 |RX fifo largest size port No.                                  |             0|
   5|    1|
|   131 |RX fifo largest size WORDS                                     |             0|
   5|    1|
|   132 |TXCGM Watermark Total UNICAST BUFFERS(C+D)                     |             0|
  -1|   -1|
|   133 |TXCGM Watermark Total UNICAST Local BUFFERS(C)                 |             0|
  -1|   -1|
|   134 |TXCGM Watermark Total UNICAST Remote BUFFERS(D)                |             0|
  -1|   -1|
|   135 |TXCGM Watermark Total PDs                                      |             0|
  -1|   -1|
|   136 |TXCGM Watermark Total deleted PDs                              |             0|
  -1|   -1|
|   137 |TXCGM Watermark Total Unicast PDs                              |             0|
  -1|   -1|
|   138 |TXCGM Watermark Total Multicast PDs                            |             0|
  -1|   -1|
|   139 |TXCGM Watermark Total Fabric PDs                               |             0|
  -1|   -1|
|   140 |TXCGM Watermark Total MS-VOQs PDs                              |             0|
  -1|   -1|
|   141 |TXCGM Watermark Total MS-OQs PDs                               |             0|
  -1|   -1|
|   142 |SMS Min total free BUFFERS                                     |             0|
  -1|   -1|
|   143 |SMS Max occupied BUFFERS                                       |         97920|
  -1|   -1|
```

```
|   144 |SMS Min free BUFFERS                                                 |             0|
  -1|   -1|
|   145 |SMS Min free buffers bank idx                                        |             0|
  -1|   -1|
|   146 |SMS Max free BUFFERS                                                 |             0|
  -1|   -1|
|   147 |SMS Max free buffers bank idx                                        |             0|
  -1|   -1|
|   148 |SMS Max FDOQ2SMS FIFO size                                           |             0|
  -1|   -1|
|   149 |SMS Max FDOQ2SMS FIFO intf                                           |             0|
  -1|   -1|
|   150 |number of non-empty Qs                                               |             0|
  -1|   -1|
|   151 |SDK device frequency                                                 |             0|
  -1|   -1|
Rack/Slot/Asic: 0/FC0/1
=============================================================================================================
|     # |                     Counter_name                                    |          val |
slice | ifg |
=============================================================================================================
|     0 |FC from PDIF to TX-Scheduler per intf                                |             0|
   0|   -1|
|     1 |FC from PDIF to TX-Scheduler for IFG0                                |             0|
   0|    0|
|     2 |FC from PDIF to TX-Scheduler for IFG1                                |             0|
   0|    1|
|     3 |FC from PDOQ to Scheduler per slice                                  |             0|
   0|   -1|
|     4 |Slice PDVOQ biggest queue No.                                        |             0|
   0|   -1|
|     5 |Slice PDVOQ biggest queue size BUFFERS                               |             0|
   0|   -1|
|     6 |Slice PDVOQ biggest queue dest device                                |           511|
   0|   -1|
|     7 |Slice PDVOQ biggest queue dest slice                                 |             0|
   0|   -1|
|     8 |Slice PDVOQ biggest queue dest ifg                                   |             0|
   0|   -1|
|     9 |Slice PDVOQ biggest queue dest port                                  |             0|
   0|   -1|
|    10 |Slice PDVOQ biggest queue VSC                                        |             0|
   0|   -1|
|    11 |Slice PDOQ biggest queue No.                                         |             0|
   0|   -1|
|    12 |Slice PDOQ biggest queue size BYTES                                  |             0|
   0|   -1|
|    13 |Slice PDOQ Delete fifo watermark BTYES                               |             0|
   0|   -1|
|    14 |TX fifo largest size port No.                                        |             0|
   0|    0|
|    15 |TX fifo largest size WORDS                                           |             0|
   0|    0|
|    16 |TX fifo largest size port No.                                        |             0|
   0|    1|
|    17 |TX fifo largest size WORDS                                           |             0|
   0|    1|
|    18 |RX fifo largest size port No.                                        |             0|
   0|    0|
|    19 |RX fifo largest size WORDS                                           |             0|
   0|    0|
|    20 |RX fifo largest size port No.                                        |             0|
   0|    1|
|    21 |RX fifo largest size WORDS                                           |             0|
```

```
   0|    1|
|    22 |FC from PDIF to TX-Scheduler per intf                          |             0|
   1|   -1|
|    23 |FC from PDIF to TX-Scheduler for IFG0                          |             0|
   1|    0|
|    24 |FC from PDIF to TX-Scheduler for IFG1                          |             0|
   1|    1|
|    25 |FC from PDOQ to Scheduler per slice                            |             0|
   1|   -1|
|    26 |Slice PDVOQ biggest queue No.                                  |             0|
   1|   -1|
|    27 |Slice PDVOQ biggest queue size BUFFERS                         |             0|
   1|   -1|
|    28 |Slice PDVOQ biggest queue dest device                          |           511|
   1|   -1|
|    29 |Slice PDVOQ biggest queue dest slice                           |             0|
   1|   -1|
|    30 |Slice PDVOQ biggest queue dest ifg                             |             0|
   1|   -1|
|    31 |Slice PDVOQ biggest queue dest port                            |             0|
   1|   -1|
|    32 |Slice PDVOQ biggest queue VSC                                  |             0|
   1|   -1|
|    33 |Slice PDOQ biggest queue No.                                   |             0|
   1|   -1|
|    34 |Slice PDOQ biggest queue size BYTES                            |             0|
   1|   -1|
|    35 |Slice PDOQ Delete fifo watermark BTYES                         |             0|
   1|   -1|
|    36 |TX fifo largest size port No.                                  |             0|
   1|    0|
|    37 |TX fifo largest size WORDS                                     |             0|
   1|    0|
|    38 |TX fifo largest size port No.                                  |             0|
   1|    1|
|    39 |TX fifo largest size WORDS                                     |             0|
   1|    1|
|    40 |RX fifo largest size port No.                                  |             0|
   1|    0|
|    41 |RX fifo largest size WORDS                                     |             0|
   1|    0|
|    42 |RX fifo largest size port No.                                  |             0|
   1|    1|
|    43 |RX fifo largest size WORDS                                     |             0|
   1|    1|
|    44 |FC from PDIF to TX-Scheduler per intf                          |             0|
   2|   -1|
|    45 |FC from PDIF to TX-Scheduler for IFG0                          |             0|
   2|    0|
|    46 |FC from PDIF to TX-Scheduler for IFG1                          |             0|
   2|    1|
|    47 |FC from PDOQ to Scheduler per slice                            |             0|
   2|   -1|
|    48 |Slice PDVOQ biggest queue No.                                  |             0|
   2|   -1|
|    49 |Slice PDVOQ biggest queue size BUFFERS                         |             0|
   2|   -1|
|    50 |Slice PDVOQ biggest queue dest device                          |           511|
   2|   -1|
|    51 |Slice PDVOQ biggest queue dest slice                           |             0|
   2|   -1|
|    52 |Slice PDVOQ biggest queue dest ifg                             |             0|
   2|   -1|
|    53 |Slice PDVOQ biggest queue dest port                            |             0|
```

```
   2|   -1|
|    54 |Slice PDVOQ biggest queue VSC                                |            0|
   2|   -1|
|    55 |Slice PDOQ biggest queue No.                                 |            0|
   2|   -1|
|    56 |Slice PDOQ biggest queue size BYTES                          |            0|
   2|   -1|
|    57 |Slice PDOQ Delete fifo watermark BTYES                       |            0|
   2|   -1|
|    58 |TX fifo largest size port No.                                |            0|
   2|    0|
|    59 |TX fifo largest size WORDS                                   |            0|
   2|    0|
|    60 |TX fifo largest size port No.                                |            0|
   2|    1|
|    61 |TX fifo largest size WORDS                                   |            0|
   2|    1|
|    62 |RX fifo largest size port No.                                |            0|
   2|    0|
|    63 |RX fifo largest size WORDS                                   |            0|
   2|    0|
|    64 |RX fifo largest size port No.                                |            0|
   2|    1|
|    65 |RX fifo largest size WORDS                                   |            0|
   2|    1|
|    66 |FC from PDIF to TX-Scheduler per intf                        |            0|
   3|   -1|
|    67 |FC from PDIF to TX-Scheduler for IFG0                        |            0|
   3|    0|
|    68 |FC from PDIF to TX-Scheduler for IFG1                        |            0|
   3|    1|
|    69 |FC from PDOQ to Scheduler per slice                          |            0|
   3|   -1|
|    70 |Slice PDVOQ biggest queue No.                                |            0|
   3|   -1|
|    71 |Slice PDVOQ biggest queue size BUFFERS                       |            0|
   3|   -1|
|    72 |Slice PDVOQ biggest queue dest device                        |          511|
   3|   -1|
|    73 |Slice PDVOQ biggest queue dest slice                         |            0|
   3|   -1|
|    74 |Slice PDVOQ biggest queue dest ifg                           |            0|
   3|   -1|
|    75 |Slice PDVOQ biggest queue dest port                          |            0|
   3|   -1|
|    76 |Slice PDVOQ biggest queue VSC                                |            0|
   3|   -1|
|    77 |Slice PDOQ biggest queue No.                                 |            0|
   3|   -1|
|    78 |Slice PDOQ biggest queue size BYTES                          |            0|
   3|   -1|
|    79 |Slice PDOQ Delete fifo watermark BTYES                       |            0|
   3|   -1|
|    80 |TX fifo largest size port No.                                |            0|
   3|    0|
|    81 |TX fifo largest size WORDS                                   |            0|
   3|    0|
|    82 |TX fifo largest size port No.                                |            0|
   3|    1|
|    83 |TX fifo largest size WORDS                                   |            0|
   3|    1|
|    84 |RX fifo largest size port No.                                |            0|
   3|    0|
|    85 |RX fifo largest size WORDS                                   |            0|
```

```
   3|    0|
|    86 |RX fifo largest size port No.                                |             0|
   3|    1|
|    87 |RX fifo largest size WORDS                                   |             0|
   3|    1|
|    88 |FC from PDIF to TX-Scheduler per intf                        |             0|
   4|   -1|
|    89 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   4|    0|
|    90 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   4|    1|
|    91 |FC from PDOQ to Scheduler per slice                          |             0|
   4|   -1|
|    92 |Slice PDVOQ biggest queue No.                                |             0|
   4|   -1|
|    93 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   4|   -1|
|    94 |Slice PDVOQ biggest queue dest device                        |           511|
   4|   -1|
|    95 |Slice PDVOQ biggest queue dest slice                         |             0|
   4|   -1|
|    96 |Slice PDVOQ biggest queue dest ifg                           |             0|
   4|   -1|
|    97 |Slice PDVOQ biggest queue dest port                          |             0|
   4|   -1|
|    98 |Slice PDVOQ biggest queue VSC                                |             0|
   4|   -1|
|    99 |Slice PDOQ biggest queue No.                                 |             0|
   4|   -1|
|   100 |Slice PDOQ biggest queue size BYTES                          |             0|
   4|   -1|
|   101 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   4|   -1|
|   102 |TX fifo largest size port No.                                |             0|
   4|    0|
|   103 |TX fifo largest size WORDS                                   |             0|
   4|    0|
|   104 |TX fifo largest size port No.                                |             0|
   4|    1|
|   105 |TX fifo largest size WORDS                                   |             0|
   4|    1|
|   106 |RX fifo largest size port No.                                |             0|
   4|    0|
|   107 |RX fifo largest size WORDS                                   |             0|
   4|    0|
|   108 |RX fifo largest size port No.                                |             0|
   4|    1|
|   109 |RX fifo largest size WORDS                                   |             0|
   4|    1|
|   110 |FC from PDIF to TX-Scheduler per intf                        |             0|
   5|   -1|
|   111 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   5|    0|
|   112 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   5|    1|
|   113 |FC from PDOQ to Scheduler per slice                          |             0|
   5|   -1|
|   114 |Slice PDVOQ biggest queue No.                                |             0|
   5|   -1|
|   115 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   5|   -1|
|   116 |Slice PDVOQ biggest queue dest device                        |           511|
   5|   -1|
|   117 |Slice PDVOQ biggest queue dest slice                         |             0|
```

```
   5|   -1|
|   118 |Slice PDVOQ biggest queue dest ifg                          |            0|
   5|   -1|
|   119 |Slice PDVOQ biggest queue dest port                         |            0|
   5|   -1|
|   120 |Slice PDVOQ biggest queue VSC                               |            0|
   5|   -1|
|   121 |Slice PDOQ biggest queue No.                                |            0|
   5|   -1|
|   122 |Slice PDOQ biggest queue size BYTES                         |            0|
   5|   -1|
|   123 |Slice PDOQ Delete fifo watermark BTYES                      |            0|
   5|   -1|
|   124 |TX fifo largest size port No.                               |            0|
   5|    0|
|   125 |TX fifo largest size WORDS                                  |            0|
   5|    0|
|   126 |TX fifo largest size port No.                               |            0|
   5|    1|
|   127 |TX fifo largest size WORDS                                  |            0|
   5|    1|
|   128 |RX fifo largest size port No.                               |            0|
   5|    0|
|   129 |RX fifo largest size WORDS                                  |            0|
   5|    0|
|   130 |RX fifo largest size port No.                               |            0|
   5|    1|
|   131 |RX fifo largest size WORDS                                  |            0|
   5|    1|
|   132 |TXCGM Watermark Total UNICAST BUFFERS(C+D)                  |            0|
  -1|   -1|
|   133 |TXCGM Watermark Total UNICAST Local BUFFERS(C)              |            0|
  -1|   -1|
|   134 |TXCGM Watermark Total UNICAST Remote BUFFERS(D)             |            0|
  -1|   -1|
|   135 |TXCGM Watermark Total PDs                                   |            0|
  -1|   -1|
|   136 |TXCGM Watermark Total deleted PDs                           |            0|
  -1|   -1|
|   137 |TXCGM Watermark Total Unicast PDs                           |            0|
  -1|   -1|
|   138 |TXCGM Watermark Total Multicast PDs                         |            0|
  -1|   -1|
|   139 |TXCGM Watermark Total Fabric PDs                            |            0|
  -1|   -1|
|   140 |TXCGM Watermark Total MS-VOQs PDs                           |            0|
  -1|   -1|
|   141 |TXCGM Watermark Total MS-OQs PDs                            |            0|
  -1|   -1|
|   142 |SMS Min total free BUFFERS                                  |            0|
  -1|   -1|
|   143 |SMS Max occupied BUFFERS                                    |        97920|
  -1|   -1|
|   144 |SMS Min free BUFFERS                                        |            0|
  -1|   -1|
|   145 |SMS Min free buffers bank idx                               |            0|
  -1|   -1|
|   146 |SMS Max free BUFFERS                                        |            0|
  -1|   -1|
|   147 |SMS Max free buffers bank idx                               |            0|
  -1|   -1|
|   148 |SMS Max FDOQ2SMS FIFO size                                  |            0|
  -1|   -1|
|   149 |SMS Max FDOQ2SMS FIFO intf                                  |            0|
```

```
  -1|   -1|
|   150 |number of non-empty Qs                                          |             0|
  -1|   -1|
|   151 |Active port srd speed port_id 0                                 |             0|
   3|    1|
|   152 |SDK device frequency                                            |             0|
  -1|   -1|
Rack/Slot/Asic: 0/FC0/2
=================================================================================================
|     # |                    Counter_name                                |         val |
slice | ifg |
=================================================================================================
|     0 |FC from PDIF to TX-Scheduler per intf                           |             0|
   0|   -1|
|     1 |FC from PDIF to TX-Scheduler for IFG0                           |             0|
   0|    0|
|     2 |FC from PDIF to TX-Scheduler for IFG1                           |             0|
   0|    1|
|     3 |FC from PDOQ to Scheduler per slice                             |             0|
   0|   -1|
|     4 |Slice PDVOQ biggest queue No.                                   |             0|
   0|   -1|
|     5 |Slice PDVOQ biggest queue size BUFFERS                          |             0|
   0|   -1|
|     6 |Slice PDVOQ biggest queue dest device                           |           511|
   0|   -1|
|     7 |Slice PDVOQ biggest queue dest slice                            |             0|
   0|   -1|
|     8 |Slice PDVOQ biggest queue dest ifg                              |             0|
   0|   -1|
|     9 |Slice PDVOQ biggest queue dest port                             |             0|
   0|   -1|
|    10 |Slice PDVOQ biggest queue VSC                                   |             0|
   0|   -1|
|    11 |Slice PDOQ biggest queue No.                                    |             0|
   0|   -1|
|    12 |Slice PDOQ biggest queue size BYTES                             |             0|
   0|   -1|
|    13 |Slice PDOQ Delete fifo watermark BTYES                          |             0|
   0|   -1|
|    14 |TX fifo largest size port No.                                   |             0|
   0|    0|
|    15 |TX fifo largest size WORDS                                      |             0|
   0|    0|
|    16 |TX fifo largest size port No.                                   |             0|
   0|    1|
|    17 |TX fifo largest size WORDS                                      |             0|
   0|    1|
|    18 |RX fifo largest size port No.                                   |             0|
   0|    0|
|    19 |RX fifo largest size WORDS                                      |             0|
   0|    0|
|    20 |RX fifo largest size port No.                                   |             0|
   0|    1|
|    21 |RX fifo largest size WORDS                                      |             0|
   0|    1|
|    22 |FC from PDIF to TX-Scheduler per intf                           |             0|
   1|   -1|
|    23 |FC from PDIF to TX-Scheduler for IFG0                           |             0|
   1|    0|
|    24 |FC from PDIF to TX-Scheduler for IFG1                           |             0|
   1|    1|
|    25 |FC from PDOQ to Scheduler per slice                             |             0|
   1|   -1|
```

```
|    26 |Slice PDVOQ biggest queue No.                          |             0|
   1|   -1|
|    27 |Slice PDVOQ biggest queue size BUFFERS                 |             0|
   1|   -1|
|    28 |Slice PDVOQ biggest queue dest device                  |           511|
   1|   -1|
|    29 |Slice PDVOQ biggest queue dest slice                   |             0|
   1|   -1|
|    30 |Slice PDVOQ biggest queue dest ifg                     |             0|
   1|   -1|
|    31 |Slice PDVOQ biggest queue dest port                    |             0|
   1|   -1|
|    32 |Slice PDVOQ biggest queue VSC                          |             0|
   1|   -1|
|    33 |Slice PDOQ biggest queue No.                           |             0|
   1|   -1|
|    34 |Slice PDOQ biggest queue size BYTES                    |             0|
   1|   -1|
|    35 |Slice PDOQ Delete fifo watermark BTYES                 |             0|
   1|   -1|
|    36 |TX fifo largest size port No.                          |             0|
   1|    0|
|    37 |TX fifo largest size WORDS                             |             0|
   1|    0|
|    38 |TX fifo largest size port No.                          |             0|
   1|    1|
|    39 |TX fifo largest size WORDS                             |             0|
   1|    1|
|    40 |RX fifo largest size port No.                          |             0|
   1|    0|
|    41 |RX fifo largest size WORDS                             |             0|
   1|    0|
|    42 |RX fifo largest size port No.                          |             0|
   1|    1|
|    43 |RX fifo largest size WORDS                             |             0|
   1|    1|
|    44 |FC from PDIF to TX-Scheduler per intf                  |             0|
   2|   -1|
|    45 |FC from PDIF to TX-Scheduler for IFG0                  |             0|
   2|    0|
|    46 |FC from PDIF to TX-Scheduler for IFG1                  |             0|
   2|    1|
|    47 |FC from PDOQ to Scheduler per slice                    |             0|
   2|   -1|
|    48 |Slice PDVOQ biggest queue No.                          |             0|
   2|   -1|
|    49 |Slice PDVOQ biggest queue size BUFFERS                 |             0|
   2|   -1|
|    50 |Slice PDVOQ biggest queue dest device                  |           511|
   2|   -1|
|    51 |Slice PDVOQ biggest queue dest slice                   |             0|
   2|   -1|
|    52 |Slice PDVOQ biggest queue dest ifg                     |             0|
   2|   -1|
|    53 |Slice PDVOQ biggest queue dest port                    |             0|
   2|   -1|
|    54 |Slice PDVOQ biggest queue VSC                          |             0|
   2|   -1|
|    55 |Slice PDOQ biggest queue No.                           |             0|
   2|   -1|
|    56 |Slice PDOQ biggest queue size BYTES                    |             0|
   2|   -1|
|    57 |Slice PDOQ Delete fifo watermark BTYES                 |             0|
   2|   -1|
```

```
|    58 |TX fifo largest size port No.                                |             0|
   2|    0|
|    59 |TX fifo largest size WORDS                                   |             0|
   2|    0|
|    60 |TX fifo largest size port No.                                |             0|
   2|    1|
|    61 |TX fifo largest size WORDS                                   |             0|
   2|    1|
|    62 |RX fifo largest size port No.                                |             0|
   2|    0|
|    63 |RX fifo largest size WORDS                                   |             0|
   2|    0|
|    64 |RX fifo largest size port No.                                |             0|
   2|    1|
|    65 |RX fifo largest size WORDS                                   |             0|
   2|    1|
|    66 |FC from PDIF to TX-Scheduler per intf                        |             0|
   3|   -1|
|    67 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   3|    0|
|    68 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   3|    1|
|    69 |FC from PDOQ to Scheduler per slice                          |             0|
   3|   -1|
|    70 |Slice PDVOQ biggest queue No.                                |             0|
   3|   -1|
|    71 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   3|   -1|
|    72 |Slice PDVOQ biggest queue dest device                        |           511|
   3|   -1|
|    73 |Slice PDVOQ biggest queue dest slice                         |             0|
   3|   -1|
|    74 |Slice PDVOQ biggest queue dest ifg                           |             0|
   3|   -1|
|    75 |Slice PDVOQ biggest queue dest port                          |             0|
   3|   -1|
|    76 |Slice PDVOQ biggest queue VSC                                |             0|
   3|   -1|
|    77 |Slice PDOQ biggest queue No.                                 |             0|
   3|   -1|
|    78 |Slice PDOQ biggest queue size BYTES                          |             0|
   3|   -1|
|    79 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   3|   -1|
|    80 |TX fifo largest size port No.                                |             0|
   3|    0|
|    81 |TX fifo largest size WORDS                                   |             0|
   3|    0|
|    82 |TX fifo largest size port No.                                |             0|
   3|    1|
|    83 |TX fifo largest size WORDS                                   |             0|
   3|    1|
|    84 |RX fifo largest size port No.                                |             0|
   3|    0|
|    85 |RX fifo largest size WORDS                                   |             0|
   3|    0|
|    86 |RX fifo largest size port No.                                |             0|
   3|    1|
|    87 |RX fifo largest size WORDS                                   |             0|
   3|    1|
|    88 |FC from PDIF to TX-Scheduler per intf                        |             0|
   4|   -1|
|    89 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   4|    0|
```

```
|    90 |FC from PDIF to TX-Scheduler for IFG1                          |             0|
   4|    1|
|    91 |FC from PDOQ to Scheduler per slice                            |             0|
   4|   -1|
|    92 |Slice PDVOQ biggest queue No.                                  |             0|
   4|   -1|
|    93 |Slice PDVOQ biggest queue size BUFFERS                         |             0|
   4|   -1|
|    94 |Slice PDVOQ biggest queue dest device                          |           511|
   4|   -1|
|    95 |Slice PDVOQ biggest queue dest slice                           |             0|
   4|   -1|
|    96 |Slice PDVOQ biggest queue dest ifg                             |             0|
   4|   -1|
|    97 |Slice PDVOQ biggest queue dest port                            |             0|
   4|   -1|
|    98 |Slice PDVOQ biggest queue VSC                                  |             0|
   4|   -1|
|    99 |Slice PDOQ biggest queue No.                                   |             0|
   4|   -1|
|   100 |Slice PDOQ biggest queue size BYTES                            |             0|
   4|   -1|
|   101 |Slice PDOQ Delete fifo watermark BTYES                         |             0|
   4|   -1|
|   102 |TX fifo largest size port No.                                  |             0|
   4|    0|
|   103 |TX fifo largest size WORDS                                     |             0|
   4|    0|
|   104 |TX fifo largest size port No.                                  |             0|
   4|    1|
|   105 |TX fifo largest size WORDS                                     |             0|
   4|    1|
|   106 |RX fifo largest size port No.                                  |             0|
   4|    0|
|   107 |RX fifo largest size WORDS                                     |             0|
   4|    0|
|   108 |RX fifo largest size port No.                                  |             0|
   4|    1|
|   109 |RX fifo largest size WORDS                                     |             0|
   4|    1|
|   110 |FC from PDIF to TX-Scheduler per intf                          |             0|
   5|   -1|
|   111 |FC from PDIF to TX-Scheduler for IFG0                          |             0|
   5|    0|
|   112 |FC from PDIF to TX-Scheduler for IFG1                          |             0|
   5|    1|
|   113 |FC from PDOQ to Scheduler per slice                            |             0|
   5|   -1|
|   114 |Slice PDVOQ biggest queue No.                                  |             0|
   5|   -1|
|   115 |Slice PDVOQ biggest queue size BUFFERS                         |             0|
   5|   -1|
|   116 |Slice PDVOQ biggest queue dest device                          |           511|
   5|   -1|
|   117 |Slice PDVOQ biggest queue dest slice                           |             0|
   5|   -1|
|   118 |Slice PDVOQ biggest queue dest ifg                             |             0|
   5|   -1|
|   119 |Slice PDVOQ biggest queue dest port                            |             0|
   5|   -1|
|   120 |Slice PDVOQ biggest queue VSC                                  |             0|
   5|   -1|
|   121 |Slice PDOQ biggest queue No.                                   |             0|
   5|   -1|
```

```
|   122 |Slice PDOQ biggest queue size BYTES                                |            0|
   5|   -1|
|   123 |Slice PDOQ Delete fifo watermark BTYES                             |            0|
   5|   -1|
|   124 |TX fifo largest size port No.                                      |            0|
   5|    0|
|   125 |TX fifo largest size WORDS                                         |            0|
   5|    0|
|   126 |TX fifo largest size port No.                                      |            0|
   5|    1|
|   127 |TX fifo largest size WORDS                                         |            0|
   5|    1|
|   128 |RX fifo largest size port No.                                      |            0|
   5|    0|
|   129 |RX fifo largest size WORDS                                         |            0|
   5|    0|
|   130 |RX fifo largest size port No.                                      |            0|
   5|    1|
|   131 |RX fifo largest size WORDS                                         |            0|
   5|    1|
|   132 |TXCGM Watermark Total UNICAST BUFFERS(C+D)                         |            0|
  -1|   -1|
|   133 |TXCGM Watermark Total UNICAST Local BUFFERS(C)                     |            0|
  -1|   -1|
|   134 |TXCGM Watermark Total UNICAST Remote BUFFERS(D)                    |            0|
  -1|   -1|
|   135 |TXCGM Watermark Total PDs                                          |            0|
  -1|   -1|
|   136 |TXCGM Watermark Total deleted PDs                                  |            0|
  -1|   -1|
|   137 |TXCGM Watermark Total Unicast PDs                                  |            0|
  -1|   -1|
|   138 |TXCGM Watermark Total Multicast PDs                                |            0|
  -1|   -1|
|   139 |TXCGM Watermark Total Fabric PDs                                   |            0|
  -1|   -1|
|   140 |TXCGM Watermark Total MS-VOQs PDs                                  |            0|
  -1|   -1|
|   141 |TXCGM Watermark Total MS-OQs PDs                                   |            0|
  -1|   -1|
|   142 |SMS Min total free BUFFERS                                         |            0|
  -1|   -1|
|   143 |SMS Max occupied BUFFERS                                           |        97920|
  -1|   -1|
|   144 |SMS Min free BUFFERS                                               |            0|
  -1|   -1|
|   145 |SMS Min free buffers bank idx                                      |            0|
  -1|   -1|
|   146 |SMS Max free BUFFERS                                               |            0|
  -1|   -1|
|   147 |SMS Max free buffers bank idx                                      |            0|
  -1|   -1|
|   148 |SMS Max FDOQ2SMS FIFO size                                         |            0|
  -1|   -1|
|   149 |SMS Max FDOQ2SMS FIFO intf                                         |            0|
  -1|   -1|
|   150 |number of non-empty Qs                                             |            0|
  -1|   -1|
|   151 |SDK device frequency                                               |            0|
  -1|   -1|
Rack/Slot/Asic: 0/FC1/3
================================================================================================
|     # |                    Counter_name                                    |         val |
slice | ifg |
```

```
==========================================================================================
|     0 |FC from PDIF to TX-Scheduler per intf                          |             0|
   0|   -1|
|     1 |FC from PDIF to TX-Scheduler for IFG0                          |             0|
   0|    0|
|     2 |FC from PDIF to TX-Scheduler for IFG1                          |             0|
   0|    1|
|     3 |FC from PDOQ to Scheduler per slice                            |             0|
   0|   -1|
|     4 |Slice PDVOQ biggest queue No.                                  |             0|
   0|   -1|
|     5 |Slice PDVOQ biggest queue size BUFFERS                         |             0|
   0|   -1|
|     6 |Slice PDVOQ biggest queue dest device                          |           511|
   0|   -1|
|     7 |Slice PDVOQ biggest queue dest slice                           |             0|
   0|   -1|
|     8 |Slice PDVOQ biggest queue dest ifg                             |             0|
   0|   -1|
|     9 |Slice PDVOQ biggest queue dest port                            |             0|
   0|   -1|
|    10 |Slice PDVOQ biggest queue VSC                                  |             0|
   0|   -1|
|    11 |Slice PDOQ biggest queue No.                                   |             0|
   0|   -1|
|    12 |Slice PDOQ biggest queue size BYTES                            |             0|
   0|   -1|
|    13 |Slice PDOQ Delete fifo watermark BTYES                         |             0|
   0|   -1|
|    14 |TX fifo largest size port No.                                  |             0|
   0|    0|
|    15 |TX fifo largest size WORDS                                     |             0|
   0|    0|
|    16 |TX fifo largest size port No.                                  |             0|
   0|    1|
|    17 |TX fifo largest size WORDS                                     |             0|
   0|    1|
|    18 |RX fifo largest size port No.                                  |             0|
   0|    0|
|    19 |RX fifo largest size WORDS                                     |             0|
   0|    0|
|    20 |RX fifo largest size port No.                                  |             0|
   0|    1|
|    21 |RX fifo largest size WORDS                                     |             0|
   0|    1|
|    22 |FC from PDIF to TX-Scheduler per intf                          |             0|
   1|   -1|
|    23 |FC from PDIF to TX-Scheduler for IFG0                          |             0|
   1|    0|
|    24 |FC from PDIF to TX-Scheduler for IFG1                          |             0|
   1|    1|
|    25 |FC from PDOQ to Scheduler per slice                            |             0|
   1|   -1|
|    26 |Slice PDVOQ biggest queue No.                                  |             0|
   1|   -1|
|    27 |Slice PDVOQ biggest queue size BUFFERS                         |             0|
   1|   -1|
|    28 |Slice PDVOQ biggest queue dest device                          |           511|
   1|   -1|
|    29 |Slice PDVOQ biggest queue dest slice                           |             0|
   1|   -1|
|    30 |Slice PDVOQ biggest queue dest ifg                             |             0|
   1|   -1|
|    31 |Slice PDVOQ biggest queue dest port                            |             0|
```

```
   1|   -1|
|    32 |Slice PDVOQ biggest queue VSC                                |             0|
   1|   -1|
|    33 |Slice PDOQ biggest queue No.                                 |             0|
   1|   -1|
|    34 |Slice PDOQ biggest queue size BYTES                          |             0|
   1|   -1|
|    35 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   1|   -1|
|    36 |TX fifo largest size port No.                                |             0|
   1|    0|
|    37 |TX fifo largest size WORDS                                   |             0|
   1|    0|
|    38 |TX fifo largest size port No.                                |             0|
   1|    1|
|    39 |TX fifo largest size WORDS                                   |             0|
   1|    1|
|    40 |RX fifo largest size port No.                                |             0|
   1|    0|
|    41 |RX fifo largest size WORDS                                   |             0|
   1|    0|
|    42 |RX fifo largest size port No.                                |             0|
   1|    1|
|    43 |RX fifo largest size WORDS                                   |             0|
   1|    1|
|    44 |FC from PDIF to TX-Scheduler per intf                        |             0|
   2|   -1|
|    45 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   2|    0|
|    46 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   2|    1|
|    47 |FC from PDOQ to Scheduler per slice                          |             0|
   2|   -1|
|    48 |Slice PDVOQ biggest queue No.                                |             0|
   2|   -1|
|    49 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   2|   -1|
|    50 |Slice PDVOQ biggest queue dest device                        |           511|
   2|   -1|
|    51 |Slice PDVOQ biggest queue dest slice                         |             0|
   2|   -1|
|    52 |Slice PDVOQ biggest queue dest ifg                           |             0|
   2|   -1|
|    53 |Slice PDVOQ biggest queue dest port                          |             0|
   2|   -1|
|    54 |Slice PDVOQ biggest queue VSC                                |             0|
   2|   -1|
|    55 |Slice PDOQ biggest queue No.                                 |             0|
   2|   -1|
|    56 |Slice PDOQ biggest queue size BYTES                          |             0|
   2|   -1|
|    57 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   2|   -1|
|    58 |TX fifo largest size port No.                                |             0|
   2|    0|
|    59 |TX fifo largest size WORDS                                   |             0|
   2|    0|
|    60 |TX fifo largest size port No.                                |             0|
   2|    1|
|    61 |TX fifo largest size WORDS                                   |             0|
   2|    1|
|    62 |RX fifo largest size port No.                                |             0|
   2|    0|
|    63 |RX fifo largest size WORDS                                   |             0|
```

```
   2|    0|
|    64 |RX fifo largest size port No.                          |            0|
   2|    1|
|    65 |RX fifo largest size WORDS                             |            0|
   2|    1|
|    66 |FC from PDIF to TX-Scheduler per intf                  |            0|
   3|   -1|
|    67 |FC from PDIF to TX-Scheduler for IFG0                  |            0|
   3|    0|
|    68 |FC from PDIF to TX-Scheduler for IFG1                  |            0|
   3|    1|
|    69 |FC from PDOQ to Scheduler per slice                    |            0|
   3|   -1|
|    70 |Slice PDVOQ biggest queue No.                          |            0|
   3|   -1|
|    71 |Slice PDVOQ biggest queue size BUFFERS                 |            0|
   3|   -1|
|    72 |Slice PDVOQ biggest queue dest device                  |          511|
   3|   -1|
|    73 |Slice PDVOQ biggest queue dest slice                   |            0|
   3|   -1|
|    74 |Slice PDVOQ biggest queue dest ifg                     |            0|
   3|   -1|
|    75 |Slice PDVOQ biggest queue dest port                    |            0|
   3|   -1|
|    76 |Slice PDVOQ biggest queue VSC                          |            0|
   3|   -1|
|    77 |Slice PDOQ biggest queue No.                           |            0|
   3|   -1|
|    78 |Slice PDOQ biggest queue size BYTES                    |            0|
   3|   -1|
|    79 |Slice PDOQ Delete fifo watermark BTYES                 |            0|
   3|   -1|
|    80 |TX fifo largest size port No.                          |            0|
   3|    0|
|    81 |TX fifo largest size WORDS                             |            0|
   3|    0|
|    82 |TX fifo largest size port No.                          |            0|
   3|    1|
|    83 |TX fifo largest size WORDS                             |            0|
   3|    1|
|    84 |RX fifo largest size port No.                          |            0|
   3|    0|
|    85 |RX fifo largest size WORDS                             |            0|
   3|    0|
|    86 |RX fifo largest size port No.                          |            0|
   3|    1|
|    87 |RX fifo largest size WORDS                             |            0|
   3|    1|
|    88 |FC from PDIF to TX-Scheduler per intf                  |            0|
   4|   -1|
|    89 |FC from PDIF to TX-Scheduler for IFG0                  |            0|
   4|    0|
|    90 |FC from PDIF to TX-Scheduler for IFG1                  |            0|
   4|    1|
|    91 |FC from PDOQ to Scheduler per slice                    |            0|
   4|   -1|
|    92 |Slice PDVOQ biggest queue No.                          |            0|
   4|   -1|
|    93 |Slice PDVOQ biggest queue size BUFFERS                 |            0|
   4|   -1|
|    94 |Slice PDVOQ biggest queue dest device                  |          511|
   4|   -1|
|    95 |Slice PDVOQ biggest queue dest slice                   |            0|
```

```
   4|   -1|
|    96 |Slice PDVOQ biggest queue dest ifg                          |             0|
   4|   -1|
|    97 |Slice PDVOQ biggest queue dest port                         |             0|
   4|   -1|
|    98 |Slice PDVOQ biggest queue VSC                               |             0|
   4|   -1|
|    99 |Slice PDOQ biggest queue No.                                |             0|
   4|   -1|
|   100 |Slice PDOQ biggest queue size BYTES                         |             0|
   4|   -1|
|   101 |Slice PDOQ Delete fifo watermark BTYES                      |             0|
   4|   -1|
|   102 |TX fifo largest size port No.                               |             0|
   4|    0|
|   103 |TX fifo largest size WORDS                                  |             0|
   4|    0|
|   104 |TX fifo largest size port No.                               |             0|
   4|    1|
|   105 |TX fifo largest size WORDS                                  |             0|
   4|    1|
|   106 |RX fifo largest size port No.                               |             0|
   4|    0|
|   107 |RX fifo largest size WORDS                                  |             0|
   4|    0|
|   108 |RX fifo largest size port No.                               |             0|
   4|    1|
|   109 |RX fifo largest size WORDS                                  |             0|
   4|    1|
|   110 |FC from PDIF to TX-Scheduler per intf                       |             0|
   5|   -1|
|   111 |FC from PDIF to TX-Scheduler for IFG0                       |             0|
   5|    0|
|   112 |FC from PDIF to TX-Scheduler for IFG1                       |             0|
   5|    1|
|   113 |FC from PDOQ to Scheduler per slice                         |             0|
   5|   -1|
|   114 |Slice PDVOQ biggest queue No.                               |             0|
   5|   -1|
|   115 |Slice PDVOQ biggest queue size BUFFERS                      |             0|
   5|   -1|
|   116 |Slice PDVOQ biggest queue dest device                       |           511|
   5|   -1|
|   117 |Slice PDVOQ biggest queue dest slice                        |             0|
   5|   -1|
|   118 |Slice PDVOQ biggest queue dest ifg                          |             0|
   5|   -1|
|   119 |Slice PDVOQ biggest queue dest port                         |             0|
   5|   -1|
|   120 |Slice PDVOQ biggest queue VSC                               |             0|
   5|   -1|
|   121 |Slice PDOQ biggest queue No.                                |             0|
   5|   -1|
|   122 |Slice PDOQ biggest queue size BYTES                         |             0|
   5|   -1|
|   123 |Slice PDOQ Delete fifo watermark BTYES                      |             0|
   5|   -1|
|   124 |TX fifo largest size port No.                               |             0|
   5|    0|
|   125 |TX fifo largest size WORDS                                  |             0|
   5|    0|
|   126 |TX fifo largest size port No.                               |             0|
   5|    1|
|   127 |TX fifo largest size WORDS                                  |             0|
```

```
   5|    1|
|   128 |RX fifo largest size port No.                                |            0|
   5|    0|
|   129 |RX fifo largest size WORDS                                   |            0|
   5|    0|
|   130 |RX fifo largest size port No.                                |            0|
   5|    1|
|   131 |RX fifo largest size WORDS                                   |            0|
   5|    1|
|   132 |TXCGM Watermark Total UNICAST BUFFERS(C+D)                   |            0|
  -1|   -1|
|   133 |TXCGM Watermark Total UNICAST Local BUFFERS(C)               |            0|
  -1|   -1|
|   134 |TXCGM Watermark Total UNICAST Remote BUFFERS(D)              |            0|
  -1|   -1|
|   135 |TXCGM Watermark Total PDs                                    |            0|
  -1|   -1|
|   136 |TXCGM Watermark Total deleted PDs                            |            0|
  -1|   -1|
|   137 |TXCGM Watermark Total Unicast PDs                            |            0|
  -1|   -1|
|   138 |TXCGM Watermark Total Multicast PDs                          |            0|
  -1|   -1|
|   139 |TXCGM Watermark Total Fabric PDs                             |            0|
  -1|   -1|
|   140 |TXCGM Watermark Total MS-VOQs PDs                            |            0|
  -1|   -1|
|   141 |TXCGM Watermark Total MS-OQs PDs                             |            0|
  -1|   -1|
|   142 |SMS Min total free BUFFERS                                   |            0|
  -1|   -1|
|   143 |SMS Max occupied BUFFERS                                     |        97920|
  -1|   -1|
|   144 |SMS Min free BUFFERS                                         |            0|
  -1|   -1|
|   145 |SMS Min free buffers bank idx                                |            0|
  -1|   -1|
|   146 |SMS Max free BUFFERS                                         |            0|
  -1|   -1|
|   147 |SMS Max free buffers bank idx                                |            0|
  -1|   -1|
|   148 |SMS Max FDOQ2SMS FIFO size                                   |            0|
  -1|   -1|
|   149 |SMS Max FDOQ2SMS FIFO intf                                   |            0|
  -1|   -1|
|   150 |number of non-empty Qs                                       |            0|
  -1|   -1|
|   151 |SDK device frequency                                         |            0|
  -1|   -1|
Rack/Slot/Asic: 0/FC1/4
================================================================================================
|     # |                    Counter_name                             |         val |
slice | ifg |
================================================================================================
|     0 |FC from PDIF to TX-Scheduler per intf                        |            0|
   0|   -1|
|     1 |FC from PDIF to TX-Scheduler for IFG0                        |            0|
   0|    0|
|     2 |FC from PDIF to TX-Scheduler for IFG1                        |            0|
   0|    1|
|     3 |FC from PDOQ to Scheduler per slice                          |            0|
   0|   -1|
|     4 |Slice PDVOQ biggest queue No.                                |            0|
   0|   -1|
```

```
|     5 |Slice PDVOQ biggest queue size BUFFERS                          |             0|
   0|   -1|
|     6 |Slice PDVOQ biggest queue dest device                           |           511|
   0|   -1|
|     7 |Slice PDVOQ biggest queue dest slice                            |             0|
   0|   -1|
|     8 |Slice PDVOQ biggest queue dest ifg                              |             0|
   0|   -1|
|     9 |Slice PDVOQ biggest queue dest port                             |             0|
   0|   -1|
|    10 |Slice PDVOQ biggest queue VSC                                   |             0|
   0|   -1|
|    11 |Slice PDOQ biggest queue No.                                    |             0|
   0|   -1|
|    12 |Slice PDOQ biggest queue size BYTES                             |             0|
   0|   -1|
|    13 |Slice PDOQ Delete fifo watermark BTYES                          |             0|
   0|   -1|
|    14 |TX fifo largest size port No.                                   |             0|
   0|    0|
|    15 |TX fifo largest size WORDS                                      |             0|
   0|    0|
|    16 |TX fifo largest size port No.                                   |             0|
   0|    1|
|    17 |TX fifo largest size WORDS                                      |             0|
   0|    1|
|    18 |RX fifo largest size port No.                                   |             0|
   0|    0|
|    19 |RX fifo largest size WORDS                                      |             0|
   0|    0|
|    20 |RX fifo largest size port No.                                   |             0|
   0|    1|
|    21 |RX fifo largest size WORDS                                      |             0|
   0|    1|
|    22 |FC from PDIF to TX-Scheduler per intf                           |             0|
   1|   -1|
|    23 |FC from PDIF to TX-Scheduler for IFG0                           |             0|
   1|    0|
|    24 |FC from PDIF to TX-Scheduler for IFG1                           |             0|
   1|    1|
|    25 |FC from PDOQ to Scheduler per slice                             |             0|
   1|   -1|
|    26 |Slice PDVOQ biggest queue No.                                   |             0|
   1|   -1|
|    27 |Slice PDVOQ biggest queue size BUFFERS                          |             0|
   1|   -1|
|    28 |Slice PDVOQ biggest queue dest device                           |           511|
   1|   -1|
|    29 |Slice PDVOQ biggest queue dest slice                            |             0|
   1|   -1|
|    30 |Slice PDVOQ biggest queue dest ifg                              |             0|
   1|   -1|
|    31 |Slice PDVOQ biggest queue dest port                             |             0|
   1|   -1|
|    32 |Slice PDVOQ biggest queue VSC                                   |             0|
   1|   -1|
|    33 |Slice PDOQ biggest queue No.                                    |             0|
   1|   -1|
|    34 |Slice PDOQ biggest queue size BYTES                             |             0|
   1|   -1|
|    35 |Slice PDOQ Delete fifo watermark BTYES                          |             0|
   1|   -1|
|    36 |TX fifo largest size port No.                                   |             0|
   1|    0|
```

```
|    37 |TX fifo largest size WORDS                                |             0|
   1|    0|
|    38 |TX fifo largest size port No.                             |             0|
   1|    1|
|    39 |TX fifo largest size WORDS                                |             0|
   1|    1|
|    40 |RX fifo largest size port No.                             |             0|
   1|    0|
|    41 |RX fifo largest size WORDS                                |             0|
   1|    0|
|    42 |RX fifo largest size port No.                             |             0|
   1|    1|
|    43 |RX fifo largest size WORDS                                |             0|
   1|    1|
|    44 |FC from PDIF to TX-Scheduler per intf                     |             0|
   2|   -1|
|    45 |FC from PDIF to TX-Scheduler for IFG0                     |             0|
   2|    0|
|    46 |FC from PDIF to TX-Scheduler for IFG1                     |             0|
   2|    1|
|    47 |FC from PDOQ to Scheduler per slice                       |             0|
   2|   -1|
|    48 |Slice PDVOQ biggest queue No.                             |             0|
   2|   -1|
|    49 |Slice PDVOQ biggest queue size BUFFERS                    |             0|
   2|   -1|
|    50 |Slice PDVOQ biggest queue dest device                     |           511|
   2|   -1|
|    51 |Slice PDVOQ biggest queue dest slice                      |             0|
   2|   -1|
|    52 |Slice PDVOQ biggest queue dest ifg                        |             0|
   2|   -1|
|    53 |Slice PDVOQ biggest queue dest port                       |             0|
   2|   -1|
|    54 |Slice PDVOQ biggest queue VSC                             |             0|
   2|   -1|
|    55 |Slice PDOQ biggest queue No.                              |             0|
   2|   -1|
|    56 |Slice PDOQ biggest queue size BYTES                       |             0|
   2|   -1|
|    57 |Slice PDOQ Delete fifo watermark BTYES                    |             0|
   2|   -1|
|    58 |TX fifo largest size port No.                             |             0|
   2|    0|
|    59 |TX fifo largest size WORDS                                |             0|
   2|    0|
|    60 |TX fifo largest size port No.                             |             0|
   2|    1|
|    61 |TX fifo largest size WORDS                                |             0|
   2|    1|
|    62 |RX fifo largest size port No.                             |             0|
   2|    0|
|    63 |RX fifo largest size WORDS                                |             0|
   2|    0|
|    64 |RX fifo largest size port No.                             |             0|
   2|    1|
|    65 |RX fifo largest size WORDS                                |             0|
   2|    1|
|    66 |FC from PDIF to TX-Scheduler per intf                     |             0|
   3|   -1|
|    67 |FC from PDIF to TX-Scheduler for IFG0                     |             0|
   3|    0|
|    68 |FC from PDIF to TX-Scheduler for IFG1                     |             0|
   3|    1|
```

```
|    69 |FC from PDOQ to Scheduler per slice                          |             0|
   3|   -1|
|    70 |Slice PDVOQ biggest queue No.                                |             0|
   3|   -1|
|    71 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   3|   -1|
|    72 |Slice PDVOQ biggest queue dest device                        |           511|
   3|   -1|
|    73 |Slice PDVOQ biggest queue dest slice                         |             0|
   3|   -1|
|    74 |Slice PDVOQ biggest queue dest ifg                           |             0|
   3|   -1|
|    75 |Slice PDVOQ biggest queue dest port                          |             0|
   3|   -1|
|    76 |Slice PDVOQ biggest queue VSC                                |             0|
   3|   -1|
|    77 |Slice PDOQ biggest queue No.                                 |             0|
   3|   -1|
|    78 |Slice PDOQ biggest queue size BYTES                          |             0|
   3|   -1|
|    79 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   3|   -1|
|    80 |TX fifo largest size port No.                                |             0|
   3|    0|
|    81 |TX fifo largest size WORDS                                   |             0|
   3|    0|
|    82 |TX fifo largest size port No.                                |             0|
   3|    1|
|    83 |TX fifo largest size WORDS                                   |             0|
   3|    1|
|    84 |RX fifo largest size port No.                                |             0|
   3|    0|
|    85 |RX fifo largest size WORDS                                   |             0|
   3|    0|
|    86 |RX fifo largest size port No.                                |             0|
   3|    1|
|    87 |RX fifo largest size WORDS                                   |             0|
   3|    1|
|    88 |FC from PDIF to TX-Scheduler per intf                        |             0|
   4|   -1|
|    89 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   4|    0|
|    90 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   4|    1|
|    91 |FC from PDOQ to Scheduler per slice                          |             0|
   4|   -1|
|    92 |Slice PDVOQ biggest queue No.                                |             0|
   4|   -1|
|    93 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   4|   -1|
|    94 |Slice PDVOQ biggest queue dest device                        |           511|
   4|   -1|
|    95 |Slice PDVOQ biggest queue dest slice                         |             0|
   4|   -1|
|    96 |Slice PDVOQ biggest queue dest ifg                           |             0|
   4|   -1|
|    97 |Slice PDVOQ biggest queue dest port                          |             0|
   4|   -1|
|    98 |Slice PDVOQ biggest queue VSC                                |             0|
   4|   -1|
|    99 |Slice PDOQ biggest queue No.                                 |             0|
   4|   -1|
|   100 |Slice PDOQ biggest queue size BYTES                          |             0|
   4|   -1|
```

```
|   101 |Slice PDOQ Delete fifo watermark BTYES                    |             0|
   4|   -1|
|   102 |TX fifo largest size port No.                             |             0|
   4|    0|
|   103 |TX fifo largest size WORDS                                |             0|
   4|    0|
|   104 |TX fifo largest size port No.                             |             0|
   4|    1|
|   105 |TX fifo largest size WORDS                                |             0|
   4|    1|
|   106 |RX fifo largest size port No.                             |             0|
   4|    0|
|   107 |RX fifo largest size WORDS                                |             0|
   4|    0|
|   108 |RX fifo largest size port No.                             |             0|
   4|    1|
|   109 |RX fifo largest size WORDS                                |             0|
   4|    1|
|   110 |FC from PDIF to TX-Scheduler per intf                     |             0|
   5|   -1|
|   111 |FC from PDIF to TX-Scheduler for IFG0                     |             0|
   5|    0|
|   112 |FC from PDIF to TX-Scheduler for IFG1                     |             0|
   5|    1|
|   113 |FC from PDOQ to Scheduler per slice                       |             0|
   5|   -1|
|   114 |Slice PDVOQ biggest queue No.                             |             0|
   5|   -1|
|   115 |Slice PDVOQ biggest queue size BUFFERS                    |             0|
   5|   -1|
|   116 |Slice PDVOQ biggest queue dest device                     |           511|
   5|   -1|
|   117 |Slice PDVOQ biggest queue dest slice                      |             0|
   5|   -1|
|   118 |Slice PDVOQ biggest queue dest ifg                        |             0|
   5|   -1|
|   119 |Slice PDVOQ biggest queue dest port                       |             0|
   5|   -1|
|   120 |Slice PDVOQ biggest queue VSC                             |             0|
   5|   -1|
|   121 |Slice PDOQ biggest queue No.                              |             0|
   5|   -1|
|   122 |Slice PDOQ biggest queue size BYTES                       |             0|
   5|   -1|
|   123 |Slice PDOQ Delete fifo watermark BTYES                    |             0|
   5|   -1|
|   124 |TX fifo largest size port No.                             |             0|
   5|    0|
|   125 |TX fifo largest size WORDS                                |             0|
   5|    0|
|   126 |TX fifo largest size port No.                             |             0|
   5|    1|
|   127 |TX fifo largest size WORDS                                |             0|
   5|    1|
|   128 |RX fifo largest size port No.                             |             0|
   5|    0|
|   129 |RX fifo largest size WORDS                                |             0|
   5|    0|
|   130 |RX fifo largest size port No.                             |             0|
   5|    1|
|   131 |RX fifo largest size WORDS                                |             0|
   5|    1|
|   132 |TXCGM Watermark Total UNICAST BUFFERS(C+D)                |             0|
  -1|   -1|
```

```
|   133 |TXCGM Watermark Total UNICAST Local BUFFERS(C)                 |             0|
  -1|   -1|
|   134 |TXCGM Watermark Total UNICAST Remote BUFFERS(D)                |             0|
  -1|   -1|
|   135 |TXCGM Watermark Total PDs                                      |             0|
  -1|   -1|
|   136 |TXCGM Watermark Total deleted PDs                              |             0|
  -1|   -1|
|   137 |TXCGM Watermark Total Unicast PDs                              |             0|
  -1|   -1|
|   138 |TXCGM Watermark Total Multicast PDs                            |             0|
  -1|   -1|
|   139 |TXCGM Watermark Total Fabric PDs                               |             0|
  -1|   -1|
|   140 |TXCGM Watermark Total MS-VOQs PDs                              |             0|
  -1|   -1|
|   141 |TXCGM Watermark Total MS-OQs PDs                               |             0|
  -1|   -1|
|   142 |SMS Min total free BUFFERS                                     |             0|
  -1|   -1|
|   143 |SMS Max occupied BUFFERS                                       |         97920|
  -1|   -1|
|   144 |SMS Min free BUFFERS                                           |             0|
  -1|   -1|
|   145 |SMS Min free buffers bank idx                                  |             0|
  -1|   -1|
|   146 |SMS Max free BUFFERS                                           |             0|
  -1|   -1|
|   147 |SMS Max free buffers bank idx                                  |             0|
  -1|   -1|
|   148 |SMS Max FDOQ2SMS FIFO size                                     |             0|
  -1|   -1|
|   149 |SMS Max FDOQ2SMS FIFO intf                                     |             0|
  -1|   -1|
|   150 |number of non-empty Qs                                         |             0|
  -1|   -1|
|   151 |Active port srd speed port_id 0                                |             0|
   3|    1|
|   152 |SDK device frequency                                           |             0|
  -1|   -1|
Rack/Slot/Asic: 0/FC1/5
=================================================================================================
|     # |                     Counter_name                              |          val |
slice | ifg |
=================================================================================================
|     0 |FC from PDIF to TX-Scheduler per intf                          |             0|
   0|   -1|
|     1 |FC from PDIF to TX-Scheduler for IFG0                          |             0|
   0|    0|
|     2 |FC from PDIF to TX-Scheduler for IFG1                          |             0|
   0|    1|
|     3 |FC from PDOQ to Scheduler per slice                            |             0|
   0|   -1|
|     4 |Slice PDVOQ biggest queue No.                                  |             0|
   0|   -1|
|     5 |Slice PDVOQ biggest queue size BUFFERS                         |             0|
   0|   -1|
|     6 |Slice PDVOQ biggest queue dest device                          |           511|
   0|   -1|
|     7 |Slice PDVOQ biggest queue dest slice                           |             0|
   0|   -1|
|     8 |Slice PDVOQ biggest queue dest ifg                             |             0|
   0|   -1|
|     9 |Slice PDVOQ biggest queue dest port                            |             0|
```

```
   0|   -1|
|    10 |Slice PDVOQ biggest queue VSC                          |            0|
   0|   -1|
|    11 |Slice PDOQ biggest queue No.                           |            0|
   0|   -1|
|    12 |Slice PDOQ biggest queue size BYTES                    |            0|
   0|   -1|
|    13 |Slice PDOQ Delete fifo watermark BTYES                 |            0|
   0|   -1|
|    14 |TX fifo largest size port No.                          |            0|
   0|    0|
|    15 |TX fifo largest size WORDS                             |            0|
   0|    0|
|    16 |TX fifo largest size port No.                          |            0|
   0|    1|
|    17 |TX fifo largest size WORDS                             |            0|
   0|    1|
|    18 |RX fifo largest size port No.                          |            0|
   0|    0|
|    19 |RX fifo largest size WORDS                             |            0|
   0|    0|
|    20 |RX fifo largest size port No.                          |            0|
   0|    1|
|    21 |RX fifo largest size WORDS                             |            0|
   0|    1|
|    22 |FC from PDIF to TX-Scheduler per intf                  |            0|
   1|   -1|
|    23 |FC from PDIF to TX-Scheduler for IFG0                  |            0|
   1|    0|
|    24 |FC from PDIF to TX-Scheduler for IFG1                  |            0|
   1|    1|
|    25 |FC from PDOQ to Scheduler per slice                    |            0|
   1|   -1|
|    26 |Slice PDVOQ biggest queue No.                          |            0|
   1|   -1|
|    27 |Slice PDVOQ biggest queue size BUFFERS                 |            0|
   1|   -1|
|    28 |Slice PDVOQ biggest queue dest device                  |          511|
   1|   -1|
|    29 |Slice PDVOQ biggest queue dest slice                   |            0|
   1|   -1|
|    30 |Slice PDVOQ biggest queue dest ifg                     |            0|
   1|   -1|
|    31 |Slice PDVOQ biggest queue dest port                    |            0|
   1|   -1|
|    32 |Slice PDVOQ biggest queue VSC                          |            0|
   1|   -1|
|    33 |Slice PDOQ biggest queue No.                           |            0|
   1|   -1|
|    34 |Slice PDOQ biggest queue size BYTES                    |            0|
   1|   -1|
|    35 |Slice PDOQ Delete fifo watermark BTYES                 |            0|
   1|   -1|
|    36 |TX fifo largest size port No.                          |            0|
   1|    0|
|    37 |TX fifo largest size WORDS                             |            0|
   1|    0|
|    38 |TX fifo largest size port No.                          |            0|
   1|    1|
|    39 |TX fifo largest size WORDS                             |            0|
   1|    1|
|    40 |RX fifo largest size port No.                          |            0|
   1|    0|
|    41 |RX fifo largest size WORDS                             |            0|
```

```
   1|    0|
|    42 |RX fifo largest size port No.                                |             0|
   1|    1|
|    43 |RX fifo largest size WORDS                                   |             0|
   1|    1|
|    44 |FC from PDIF to TX-Scheduler per intf                        |             0|
   2|   -1|
|    45 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   2|    0|
|    46 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   2|    1|
|    47 |FC from PDOQ to Scheduler per slice                          |             0|
   2|   -1|
|    48 |Slice PDVOQ biggest queue No.                                |             0|
   2|   -1|
|    49 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   2|   -1|
|    50 |Slice PDVOQ biggest queue dest device                        |           511|
   2|   -1|
|    51 |Slice PDVOQ biggest queue dest slice                         |             0|
   2|   -1|
|    52 |Slice PDVOQ biggest queue dest ifg                           |             0|
   2|   -1|
|    53 |Slice PDVOQ biggest queue dest port                          |             0|
   2|   -1|
|    54 |Slice PDVOQ biggest queue VSC                                |             0|
   2|   -1|
|    55 |Slice PDOQ biggest queue No.                                 |             0|
   2|   -1|
|    56 |Slice PDOQ biggest queue size BYTES                          |             0|
   2|   -1|
|    57 |Slice PDOQ Delete fifo watermark BTYES                       |             0|
   2|   -1|
|    58 |TX fifo largest size port No.                                |             0|
   2|    0|
|    59 |TX fifo largest size WORDS                                   |             0|
   2|    0|
|    60 |TX fifo largest size port No.                                |             0|
   2|    1|
|    61 |TX fifo largest size WORDS                                   |             0|
   2|    1|
|    62 |RX fifo largest size port No.                                |             0|
   2|    0|
|    63 |RX fifo largest size WORDS                                   |             0|
   2|    0|
|    64 |RX fifo largest size port No.                                |             0|
   2|    1|
|    65 |RX fifo largest size WORDS                                   |             0|
   2|    1|
|    66 |FC from PDIF to TX-Scheduler per intf                        |             0|
   3|   -1|
|    67 |FC from PDIF to TX-Scheduler for IFG0                        |             0|
   3|    0|
|    68 |FC from PDIF to TX-Scheduler for IFG1                        |             0|
   3|    1|
|    69 |FC from PDOQ to Scheduler per slice                          |             0|
   3|   -1|
|    70 |Slice PDVOQ biggest queue No.                                |             0|
   3|   -1|
|    71 |Slice PDVOQ biggest queue size BUFFERS                       |             0|
   3|   -1|
|    72 |Slice PDVOQ biggest queue dest device                        |           511|
   3|   -1|
|    73 |Slice PDVOQ biggest queue dest slice                         |             0|
```

```
   3|   -1|
|    74 |Slice PDVOQ biggest queue dest ifg                          |            0|
   3|   -1|
|    75 |Slice PDVOQ biggest queue dest port                         |            0|
   3|   -1|
|    76 |Slice PDVOQ biggest queue VSC                               |            0|
   3|   -1|
|    77 |Slice PDOQ biggest queue No.                                |            0|
   3|   -1|
|    78 |Slice PDOQ biggest queue size BYTES                         |            0|
   3|   -1|
|    79 |Slice PDOQ Delete fifo watermark BTYES                      |            0|
   3|   -1|
|    80 |TX fifo largest size port No.                               |            0|
   3|    0|
|    81 |TX fifo largest size WORDS                                  |            0|
   3|    0|
|    82 |TX fifo largest size port No.                               |            0|
   3|    1|
|    83 |TX fifo largest size WORDS                                  |            0|
   3|    1|
|    84 |RX fifo largest size port No.                               |            0|
   3|    0|
|    85 |RX fifo largest size WORDS                                  |            0|
   3|    0|
|    86 |RX fifo largest size port No.                               |            0|
   3|    1|
|    87 |RX fifo largest size WORDS                                  |            0|
   3|    1|
|    88 |FC from PDIF to TX-Scheduler per intf                       |            0|
   4|   -1|
|    89 |FC from PDIF to TX-Scheduler for IFG0                       |            0|
   4|    0|
|    90 |FC from PDIF to TX-Scheduler for IFG1                       |            0|
   4|    1|
|    91 |FC from PDOQ to Scheduler per slice                         |            0|
   4|   -1|
|    92 |Slice PDVOQ biggest queue No.                               |            0|
   4|   -1|
|    93 |Slice PDVOQ biggest queue size BUFFERS                      |            0|
   4|   -1|
|    94 |Slice PDVOQ biggest queue dest device                       |          511|
   4|   -1|
|    95 |Slice PDVOQ biggest queue dest slice                        |            0|
   4|   -1|
|    96 |Slice PDVOQ biggest queue dest ifg                          |            0|
   4|   -1|
|    97 |Slice PDVOQ biggest queue dest port                         |            0|
   4|   -1|
|    98 |Slice PDVOQ biggest queue VSC                               |            0|
   4|   -1|
|    99 |Slice PDOQ biggest queue No.                                |            0|
   4|   -1|
|   100 |Slice PDOQ biggest queue size BYTES                         |            0|
   4|   -1|
|   101 |Slice PDOQ Delete fifo watermark BTYES                      |            0|
   4|   -1|
|   102 |TX fifo largest size port No.                               |            0|
   4|    0|
|   103 |TX fifo largest size WORDS                                  |            0|
   4|    0|
|   104 |TX fifo largest size port No.                               |            0|
   4|    1|
|   105 |TX fifo largest size WORDS                                  |            0|
```

```
   4|    1|
|   106 |RX fifo largest size port No.                                |            0|
   4|    0|
|   107 |RX fifo largest size WORDS                                   |            0|
   4|    0|
|   108 |RX fifo largest size port No.                                |            0|
   4|    1|
|   109 |RX fifo largest size WORDS                                   |            0|
   4|    1|
|   110 |FC from PDIF to TX-Scheduler per intf                        |            0|
   5|   -1|
|   111 |FC from PDIF to TX-Scheduler for IFG0                        |            0|
   5|    0|
|   112 |FC from PDIF to TX-Scheduler for IFG1                        |            0|
   5|    1|
|   113 |FC from PDOQ to Scheduler per slice                          |            0|
   5|   -1|
|   114 |Slice PDVOQ biggest queue No.                                |            0|
   5|   -1|
|   115 |Slice PDVOQ biggest queue size BUFFERS                       |            0|
   5|   -1|
|   116 |Slice PDVOQ biggest queue dest device                        |          511|
   5|   -1|
|   117 |Slice PDVOQ biggest queue dest slice                         |            0|
   5|   -1|
|   118 |Slice PDVOQ biggest queue dest ifg                           |            0|
   5|   -1|
|   119 |Slice PDVOQ biggest queue dest port                          |            0|
   5|   -1|
|   120 |Slice PDVOQ biggest queue VSC                                |            0|
   5|   -1|
|   121 |Slice PDOQ biggest queue No.                                 |            0|
   5|   -1|
|   122 |Slice PDOQ biggest queue size BYTES                          |            0|
   5|   -1|
|   123 |Slice PDOQ Delete fifo watermark BTYES                       |            0|
   5|   -1|
|   124 |TX fifo largest size port No.                                |            0|
   5|    0|
|   125 |TX fifo largest size WORDS                                   |            0|
   5|    0|
|   126 |TX fifo largest size port No.                                |            0|
   5|    1|
|   127 |TX fifo largest size WORDS                                   |            0|
   5|    1|
|   128 |RX fifo largest size port No.                                |            0|
   5|    0|
|   129 |RX fifo largest size WORDS                                   |            0|
   5|    0|
|   130 |RX fifo largest size port No.                                |            0|
   5|    1|
|   131 |RX fifo largest size WORDS                                   |            0|
   5|    1|
|   132 |TXCGM Watermark Total UNICAST BUFFERS(C+D)                   |            0|
  -1|   -1|
|   133 |TXCGM Watermark Total UNICAST Local BUFFERS(C)               |            0|
  -1|   -1|
|   134 |TXCGM Watermark Total UNICAST Remote BUFFERS(D)              |            0|
  -1|   -1|
|   135 |TXCGM Watermark Total PDs                                    |            0|
  -1|   -1|
|   136 |TXCGM Watermark Total deleted PDs                            |            0|
  -1|   -1|
|   137 |TXCGM Watermark Total Unicast PDs                            |            0|
```

```
  -1|   -1|
|   138 |TXCGM Watermark Total Multicast PDs                          |            0|
  -1|   -1|
|   139 |TXCGM Watermark Total Fabric PDs                             |            0|
  -1|   -1|
|   140 |TXCGM Watermark Total MS-VOQs PDs                            |            0|
  -1|   -1|
|   141 |TXCGM Watermark Total MS-OQs PDs                             |            0|
  -1|   -1|
|   142 |SMS Min total free BUFFERS                                   |            0|
  -1|   -1|
|   143 |SMS Max occupied BUFFERS                                     |        97920|
  -1|   -1|
|   144 |SMS Min free BUFFERS                                         |            0|
  -1|   -1|
|   145 |SMS Min free buffers bank idx                                |            0|
  -1|   -1|
|   146 |SMS Max free BUFFERS                                         |            0|
  -1|   -1|
|   147 |SMS Max free buffers bank idx                                |            0|
  -1|   -1|
|   148 |SMS Max FDOQ2SMS FIFO size                                   |            0|
  -1|   -1|
|   149 |SMS Max FDOQ2SMS FIFO intf                                   |            0|
  -1|   -1|
|   150 |number of non-empty Qs                                       |            0|
  -1|   -1|
|   151 |SDK device frequency                                         |            0|
  -1|   -1|
```

show controllers npu stats counters-all

To display the various statistics for the NPU, use the **show controllers npu stats counters-all** command in the XR EXEC mode.

show controller npu stats counters-all { **detail instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } } [*output-modifiers* { **begin** *line* | **exclude** *line* | **file** | **include** *line* | **utility** *line* }]

Syntax Description

detail instance *instance-id*	Displays detailed information about a given instance.
detail instance *all*	Displays detailed information about all instances.
instance *instance-id*	Displays information about a given instance.
instance *all*	Displays information about all instances.
location *node-id*	Specifies the node. The *node-id* argument is entered in the *rack/slot/module* notation. Displays the information about a specific node.
location *all*	Displays information about all nodes.

output-modifiers **begin** *line*	Displays information from the line that matches to the given content. For example, if you want to display the running configuration starting from the interface configurations, you can enter as **| begin interface**.
output-modifiers **exclude** *line*	Displays information by filtering out lines that contain the given content. For example, if you want to view a configuration but skip all lines that mention "interface", you can enter as **| exclude interface**.
output-modifiers **include** *line*	Displays information that includes the content that you have given. For example, if you want to view lines that contain the word "interface" within a configuration, you can enter as **| include interface**.
output-modifiers **utility** *line*	Specifies various Unix command-line tools to manipulate or analyze the command's output. For example, if you want to sort the output of a command alphabetically, you can enter as **| utility sort**.

output-modifiers **file**	Saves the information to a specific file. For example, if you want to save information to a specific file, you can enter as **| file filename vrf vrfname**. You can save the content in the following locations: • *filename* - Save the output to a specified filename in VRF. • *append* - Add the output to the end of an existing file. • *config* - Save the output to the device's configuration. • *disk0* - Store the output on the device's disk0 storage. • *ftp* - Transfer and save the output to an FTP server. • *harddisk* - Save the output to the device's internal hard disk. • *http* - Send the output to an HTTP server. • *https* - Send the output to an HTTPS server. • *rootfs* - Save the output to the root file system of the device. • *scp* - Securely copy the output to a remote server using SCP. • *sftp* - Securely transfer the output to a remote server using SFTP. • *tftp* - Transfer the output to a TFTP server.

Command Default None

Command Modes XR EXEC mode

Command History

Release	Modification
Release 24.4.1	Starting from Cisco IOS XR Release 24.4.1, the **show controllers npu stats counters-all** command is deprecated and will not be supported in future releases. Instead, you can use **show controllers npu debug-utils get-counters instance** <> loc <> command. The **show controllers npu stats counters-all detail instance** <> **loc** <> command is now replaced by **show controllers npu stats counters-detail instance** <>**loc** <>command.
Release 7.3.5	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu stats counters-all** command displays the NPU statistics for all instance and all locations.

```
Router# show controller npu stats counters-all instance all location all

FIA Statistics Rack: 0, Slot: 0, Asic instance: 0

Per Block Statistics:
Slice 0 RX Summary counters:
IFG_RX 0 packets : 0
IFG_RX 0 bytes : 0
IFG_RX 1 packets : 0
IFG_RX 1 bytes : 0
Slice 0 TX Summary counters:
TXCGM MC packets : 0
IFGB_TX 0 packets : 0
IFG_TX 0 good packets : 0
IFG_TX 0 good bytes : 0
IFGB_TX 1 packets : 0
IFG_TX 1 good packets : 0
IFG_TX 1 good bytes : 0
Slice 1 RX Summary counters:
IFG_RX 2 packets : 0
```

```
IFG_RX 2 bytes : 0
IFG_RX 3 packets : 0
IFG_RX 3 bytes : 0
Slice 1 TX Summary counters:
TXCGM MC packets : 0
IFGB_TX 2 packets : 0
IFG_TX 2 good packets : 0
IFG_TX 2 good bytes : 0
IFGB_TX 3 packets : 0
IFG_TX 3 good packets : 0
IFG_TX 3 good bytes : 0

Slice 2 RX Summary counters:
IFG_RX 4 packets : 0
IFG_RX 4 bytes : 0
IFG_RX 5 packets : 0
IFG_RX 5 bytes : 0
Slice 2 TX Summary counters:
TXCGM MC packets : 0
IFGB_TX 4 packets : 0
IFG_TX 4 good packets : 0
IFG_TX 4 good bytes : 0
IFGB_TX 5 packets : 0
IFG_TX 5 good packets : 0
IFG_TX 5 good bytes : 0
Slice 3 RX Summary counters:
IFG_RX 6 packets : 0
IFG_RX 6 bytes : 0
IFG_RX 7 packets : 0
IFG_RX 7 bytes : 0
Slice 3 TX Summary counters:
TXCGM MC packets : 0
IFGB_TX 6 packets : 0
IFG_TX 6 good packets : 0
IFG_TX 6 good bytes : 0
IFGB_TX 7 packets : 0
IFG_TX 7 good packets : 0
IFG_TX 7 good bytes : 0
Slice 4 RX Summary counters:
IFG_RX 8 packets : 0
IFG_RX 8 bytes : 0
IFG_RX 9 packets : 0
IFG_RX 9 bytes : 0
Slice 4 TX Summary counters:
TXCGM MC packets : 0
IFGB_TX 8 packets : 0
IFG_TX 8 good packets : 0
IFG_TX 8 good bytes : 0
IFGB_TX 9 packets : 0
IFG_TX 9 good packets : 0
IFG_TX 9 good bytes : 0
Slice 5 RX Summary counters:
IFG_RX 10 packets : 0
IFG_RX 10 bytes : 0
IFG_RX 11 packets : 0
IFG_RX 11 bytes : 0
Slice 5 TX Summary counters:
TXCGM MC packets : 0
IFGB_TX 10 packets : 0
IFG_TX 10 good packets : 0
IFG_TX 10 good bytes : 0
IFGB_TX 11 packets : 0
IFG_TX 11 good packets : 0
IFG_TX 11 good bytes : 0
```

show controllers npu port-rate-histogram

To view detailed port rate histogram data, use the **show controllers npu port-rate-histogram** command in the XR EXEC mode.

show controllers npu port-rate-histogram { **location** *node-id* | *all* }

Syntax Description

location *node-id*	Displays the port rate information for a specific node. The node-id argument is entered in the *rack/slot/module* notation.
location *all*	Displays the port rate information for all nodes.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 25.4.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu port-rate-histogram** displays detailed port rate histogram data for specific interfaces or port ranges.

```
Router# show controllers npu port-rate-histogram avg-samples location 0/0/CPU0

Sample Output:
Tue Nov 25 16:50:20.173 EST
=============================================
Port rate Histogram
=============================================

HW Polling Period     : 1  Seconds
HW Snapshot Interval  : 32 Microseconds
Description:
=============================================
Cumulative  : Accumulated samples since the port is up
Delta       : Delta samples between the cli's
avg-samples    - aggregation of samples from various time window
avg-percentage - aggregation of samples percentage from various time window
```

```
+=============================================================================================================+
Interface     Directions  Durations    5<-35%          35-<60%         60-<80%
80-<90%         90-<95%         95-<99%         >99%
+=============================================================================================================+
+-------------------------------------------------------------------------------------------------------------+
last Rx snapshot timestamp:1764107377549798104 [Local time: 2025-11-25 16:49:37]
+-------------------------------------------------------------------------------------------------------------+
0/0/0/0         Rx         30sec          0               0               0
0               0               0               0
0/0/0/0         Rx         5mins          0               0               0
0               0               0               0
0/0/0/0         Rx         1hour          0               0               0
0               0               0               0
0/0/0/0         Rx         24hours        0               0               0
0               0               0               0
0/0/0/0         Rx         Delta          0               0               0
0               0               0               0
0/0/0/0         Rx         Cumm           0               0               0
0               0               0               0
+-------------------------------------------------------------------------------------------------------------+
last Tx snapshot timestamp:1764107377549798104 [Local time: 2025-11-25 16:49:37]
+-------------------------------------------------------------------------------------------------------------+
0/0/0/0         Tx         30sec          0               0               0
0               0               0               0
0/0/0/0         Tx         5mins          0               0               0
0               0               0               0
0/0/0/0         Tx         1hour          0               0               0
0               0               0               0
0/0/0/0         Tx         24hours        0               0               0
0               0               0               0
0/0/0/0         Tx         Delta          0               0               0
0               0               0               0
0/0/0/0         Tx         Cumm           0               0               0
0               0               0               0
+-------------------------------------------------------------------------------------------------------------+
last Rx snapshot timestamp:1764107377549782105 [Local time: 2025-11-25 16:49:37]
+-------------------------------------------------------------------------------------------------------------+
0/0/0/1         Rx         30sec          0               0               0
0               0               0               0
0/0/0/1         Rx         5mins          0               0               0
0               0               0               0
0/0/0/1         Rx         1hour          0               0               0
0               0               0               0
0/0/0/1         Rx         24hours        0               0               0
0               0               0               0
0/0/0/1         Rx         Delta          0               0               0
0               0               0               0
0/0/0/1         Rx         Cumm           0               0               0
0               0               0               0
+-------------------------------------------------------------------------------------------------------------+
```

show controllers npu stats counters-detail

To display the various statistics for the NPU, use the **show controllers npu stats counters-detail** command in the XR EXEC mode.

show controller npu stats counters-detail { **detail instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **instance** { *instance-id* **location** { *node-id* | *path* | *all* }

| *all* **location** { *node-id* | *path* | *all* } } } [*output-modifiers* { **begin** *line* | **exclude** *line* | **file** | **include** *line* | **utility** *line* }]

Syntax Description

detail instance *instance-id*	Displays detailed information about a given instance.
detail instance *all*	Displays detailed information about all instances.
instance *instance-id*	Displays information about a given instance.
instance *all*	Displays information about all instances.
location *node-id*	Specifies the node. The *node-id* argument is entered in the *rack/slot/module* notation. Displays the information about a specific node.
location *all*	Displays information about all nodes.
output-modifiers **begin** *line*	Displays information from the line that matches to the given content. For example, if you want to display the running configuration starting from the interface configurations, you can enter as **| begin interface**.
output-modifiers **exclude** *line*	Displays information by filtering out lines that contain the given content. For example, if you want to view a configuration but skip all lines that mention "interface", you can enter as **| exclude interface**.
output-modifiers **include** *line*	Displays information that includes the content that you have given. For example, if you want to view lines that contain the word "interface" within a configuration, you can enter as **| include interface**.
output-modifiers **utility** *line*	Specifies various Unix command-line tools to manipulate or analyze the command's output. For example, if you want to sort the output of a command alphabetically, you can enter as **| utility sort**.

output-modifiers **file**	Saves the information to a specific file. For example, if you want to save information to a specific file, you can enter as **`| file filename vrf vrfname`**. You can save the content in the following locations: • *filename* - Save the output to a specified filename in VRF. • *append* - Add the output to the end of an existing file. • *config* - Save the output to the device's configuration. • *disk0* - Store the output on the device's disk0 storage. • *ftp* - Transfer and save the output to an FTP server. • *harddisk* - Save the output to the device's internal hard disk. • *http* - Send the output to an HTTP server. • *https* - Send the output to an HTTPS server. • *rootfs* - Save the output to the root file system of the device. • *scp* - Securely copy the output to a remote server using SCP. • *sftp* - Securely transfer the output to a remote server using SFTP. • *tftp* - Transfer the output to a TFTP server.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 24.4.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read

Task ID	Operations
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu stats counters-detail** command displays the NPU statistics for all instance and all locations.

```
Router# show controller npu stats counters-detail instance all location all

FIA Statistics Rack: 0, Slot: 0, Asic instance: 0

Total number of blocks: 419
Per Block Statistics:
slice[0]/ifg[0]/ifgb_24p counters:
ecc_1b_err_debug/ecc_1b_err_counter : 0
ecc_2b_err_debug/ecc_2b_err_counter : 0
rx_filter_hit_counter[0]/rx_filter_hit_cnt : 0
rx_filter_hit_counter[1]/rx_filter_hit_cnt : 0
rx_filter_hit_counter[2]/rx_filter_hit_cnt : 0
rx_prot_err_counter/rx_prot_err_cnt : 0
```

show controllers npu stats counters-drop

To display the packets that have been dropped by the NPU, use the **show controllers npu stats counters-drop** command in the XR EXEC mode.

show controller npu stats counters-drop { **description instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **latest instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } } [*output-modifiers* { **begin** *line* | **exclude** *line* | **file** | **include** *line* | **utility** *line* }]

Syntax Description

description instance *instance-id*	Displays the counter description about a given instance.
description instance *all*	Displays the counter description about all instances.
instance *instance-id*	Displays NPU information about a given instance.
instance *all*	Displays NPU information about all instances.
latest instance *instance-id*	Displays the most recent non zero ASIC statistics about a given instance.
latest instance *all*	Displays the most recent non zero ASIC statistics about all instances.

location *node-id*	Specifies the node. The *node-id* argument is entered in the *rack/slot/module* notation. Displays the information about a specific node.
location *all*	Displays information about all nodes.
output-modifiers **begin** *line*	Displays information from the line that matches to the given content. For example, if you want to display the running configuration starting from the interface configurations, you can enter as **| begin interface**.
output-modifiers **exclude** *line*	Displays information by filtering out lines that contain the given content. For example, if you want to view a configuration but skip all lines that mention "interface", you can enter as **| exclude interface**.
output-modifiers **include** *line*	Displays information that includes the content that you have given. For example, if you want to view lines that contain the word "interface" within a configuration, you can enter as **| include interface**.
output-modifiers **utility** *line*	Specifies various Unix command-line tools to manipulate or analyze the command's output. For example, if you want to sort the output of a command alphabetically, you can enter as **| utility sort**.

output-modifiers **file**	Saves the information to a specific file. For example, if you want to save information to a specific file, you can enter as **`| file filename vrf vrfname`**. You can save the content in the following locations: • *filename* - Save the output to a specified filename. • *append* - Add the output to the end of an existing file. • *config* - Save the output to the device's configuration. • *disk0* - Store the output on the device's disk0 storage. • *ftp* - Transfer and save the output to an FTP server. • *harddisk* - Save the output to the device's internal hard disk. • *http* - Send the output to an HTTP server. • *https* - Send the output to an HTTPS server. • *rootfs* - Save the output to the root file system of the device. • *scp* - Securely copy the output to a remote server using SCP. • *sftp* - Securely transfer the output to a remote server using SFTP. • *tftp* - Transfer the output to a TFTP server.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 7.3.5	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read

Task ID	Operations
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu stats counters-drop** command displays the NPU statistics for all instance and all locations.

```
Router# show controllers npu stats counters-drop instance all location all

Statistics Rack: 0, Slot: 0(0x0), Asic instance: 0, Total Counters: 675

================================================================================================
|     # |                          Counter_name                                |          val |
slice | ifg |
================================================================================================
|     0 | Fwd drop counter (DSP==1): pkts                                      |            0 |
-   |  -  |
|     1 | Fwd drop counter (DSP==1): bytes                                     |            0 |
-   |  -  |
|     2 | RX IFGB0 Port0 drop_counter TC0                                      |            0 |
0   |  0  |
|     3 | RX IFGB0 Port0 drop_counter TC1                                      |            0 |
0   |  0  |
|     4 | RX IFGB0 Port0 drop_counter TC2                                      |            0 |
0   |  0  |
|     5 | RX IFGB0 Port0 drop_counter TC3                                      |            0 |
0   |  0  |
|     6 | RX IFGB0 Port8 drop_counter TC0                                      |            0 |
0   |  0  |
|     7 | RX IFGB0 Port8 drop_counter TC1                                      |            0 |
0   |  0  |
|     8 | RX IFGB0 Port8 drop_counter TC2                                      |            0 |
0   |  0  |
|     9 | RX IFGB0 Port8 drop_counter TC3                                      |            0 |
0   |  0  |
|    10 | RX IFGB0 Port16 drop_counter TC0                                     |            0 |
0   |  0  |
|    11 | RX IFGB0 Port16 drop_counter TC1                                     |            0 |
0   |  0  |
|    12 | RX IFGB0 Port16 drop_counter TC2                                     |            0 |
0   |  0  |
|    13 | RX IFGB0 Port16 drop_counter TC3                                     |            0 |
0   |  0  |
|    14 | RX IFGB 10th fabric link full pkt drop counter ifg0                  |            0 |
0   |  0  |
|    15 | RX IFGB0 Port0 partial_drop_counter TC0                              |            0 |
0   |  0  |
|    16 | RX IFGB0 Port0 partial_drop_counter TC1                              |            0 |
0   |  0  |
```

The above sample displays only a part of the actual output; the actual output displays more details.

show controllers npu stats traps-all

To display all the trap events statistics within the NPU, use the **show controllers npu stats traps-all** command in the XR EXEC mode.

show controller npu stats traps-all { **detail instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **latest instance** *instance-id* **location** { *node-id* | *path* | *all* } | **nonzero instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } } [*output-modifiers* { **begin** *line* | **exclude** *line* | **file** | **include** *line* | **utility** *line* }]

Syntax Description

detail instance *instance-id*	Displays detailed information about a given instance.
detail instance *all*	Displays detailed information about all instances.
instance *instance-id*	Displays NPU information about a given instance.
instance *all*	Displays NPU information about all instances.
latest instance *instance-id*	Displays the most recent hardware statistics about a given instance.
nonzero instance *instance-id*	Displays information about a given instance by excluding traps with both zero packets accepted and zero packets dropped.
nonzero instance *all*	Displays information about all instances by excluding traps with zero packets accepted and zero packets dropped.
location *node-id*	Specifies the node. The *node-id* argument is entered in the *rack/slot/module* notation. Displays the information about a specific node.
location *all*	Displays information about all nodes.
output-modifiers **begin** *line*	Displays information from the line that matches to the given content. For example, if you want to display the running configuration starting from the interface configurations, you can enter as **| begin interface**.
output-modifiers **exclude** *line*	Displays information by filtering out lines that contain the given content. For example, if you want to view a configuration but skip all lines that mention "interface", you can enter as **| exclude interface**.

output-modifiers **include** *line*	Displays information that includes the content that you have given. For example, if you want to view lines that contain the word "interface" within a configuration, you can enter as **| include interface**.
output-modifiers **utility** *line*	Specifies various Unix command-line tools to manipulate or analyze the command's output. For example, if you want to sort the output of a command alphabetically, you can enter as **| utility sort**.
output-modifiers **file**	Saves the information to a specific file. For example, if you want to save information to a specific file, you can enter as **| file filename vrf vrfname**. You can save the content in the following locations: • *WORD* - Save the output to a specified filename. • *append* - Add the output to the end of an existing file. • *config* - Save the output to the device's configuration. • *disk0* - Store the output on the device's disk0 storage. • *ftp* - Transfer and save the output to an FTP server. • *harddisk* - Save the output to the device's internal hard disk. • *http* - Send the output to an HTTP server. • *https* - Send the output to an HTTPS server. • *rootfs* - Save the output to the root file system of the device. • *scp* - Securely copy the output to a remote server using SCP. • *sftp* - Securely transfer the output to a remote server using SFTP. • *tftp* - Transfer the output to a TFTP server.

Command Default None

Command Modes XR EXEC mode

Command History

Release	Modification
Release 7.3.5	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu stats traps-all** command displays packets that are locally processed and packets that are dropped by the CPU.

```
Router# show controllers npu stats traps-all instance all location 0/RP0/CPU0

Trap Type                                       NPU  Trap TrapStats   Policer Packet    Packet

                                                ID    ID      ID              Accepted  Dropped
=============================================================================================
RxTrapMimSaMove(CFM_DOWM_MEP_DMM)                0    6    0x6         32037   0         0

RxTrapMimSaUnknown(RCY_CFM_DOWN_MEP_DMM)         0    7    0x7         32037   0         0

RxTrapAuthSaLookupFail (IPMC default)            0    8    0x8         32033   0         0

RxTrapSaMulticast                                0    11   0xb         32018   0         0

RxTrapArpMyIp                                    0    13   0xd         32001   0         0

RxTrapArp                                        0    14   0xe         32001   11        0

RxTrapDhcpv4Server                               0    18   0x12        32022   0         0

RxTrapDhcpv4Client                               0    19   0x13        32022   0         0

RxTrapDhcpv6Server                               0    20   0x14        32022   0         0

RxTrapDhcpv6Client                               0    21   0x15        32022   0         0

RxTrapL2Cache_LACP                               0    23   0x17        32003   0         0

RxTrapL2Cache_LLDP1                              0    24   0x18        32004   0         0

RxTrapL2Cache_LLDP2                              0    25   0x19        32004   1205548   0

RxTrapL2Cache_LLDP3                              0    26   0x1a        32004   0         0
```

The above sample displays only a part of the actual output; the actual output displays more details.

show controllers npu stats voq

To display statistics related to the Virtual Output Queues (VOQs) on the NPU, use the **show controllers npu stats voq** command in the XR EXEC mode.

show controller npu stats voq { **base** *voq-base number* { **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **src-slice** *slice-id* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } } | **ingress interface** { *voq-Interface-handle-number* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **CEM** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **EH** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **Fi** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **Fo** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **FH** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **Gi** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **Hu** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **Mg** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **PTP** *R/S/I/P* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **Te** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **TF** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | **TH** *R/S/I/P/B* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } | *all* **instance** { *instance-id* **location** { *node-id* | *path* | *all* } | *all* **location** { *node-id* | *path* | *all* } } } } [*output-modifiers* { **begin** *line* | **exclude** *line* | **file** | **include** *line* | **utility** *line* }]

Syntax Description

base *voq-base number*	Specifies the voq-base number.
src-slice *slice-id* **instance**	Specifies the slice id.
ingress interface <*voq-Interface handle number*>	Specifies voq-Interface handle number.
ingress interface *CEM*	Specifies circuit emulation interface.
ingress interface *EH*	Specifies 800 Gigabit ethernet interface type.
ingress interface *Fi*	Specifies 50 Gigabit ethernet interface type.
ingress interface *Fo*	Specifies 40 Gigabit ethernet interface type.
ingress interface *FH*	Specifies 400 Gigabit ethernet interface type.
ingress interface *Gi*	Specifies Gigabit ethernet interface type.
ingress interface *Hu*	Specifies 100 Gigabit ethernet interface type.
ingress interface *Mg*	Specifies ethernet interface type.
ingress interface *PTP*	Specifies ethernet interface type.
ingress interface *Te*	Specifies 10 Gigabit ethernet interface type.

ingress interface *TF*	Specifies 25 Gigabit ethernet interface type.
ingress interface *TH*	Specifies 200 Gigabit ethernet interface type.
ingress interface *all*	Specifies all interface type.
R/S/I/P/B	Specifies the Rack/Slot/Instance/Port/Breakout of the voq.
location *node-id*	Specifies the node. The *node-id* argument is entered in the *rack/slot/module* notation. Displays the information about a specific node.
location *all*	Displays information about all nodes.
output-modifiers **begin** *line*	Displays information from the line that matches to the given content. For example, if you want to display the running configuration starting from the interface configurations, you can enter as **| begin interface**.
output-modifiers **exclude** *line*	Displays information by filtering out lines that contain the given content. For example, if you want to view a configuration but skip all lines that mention "interface", you can enter as **| exclude interface**.
output-modifiers **include** *line*	Displays information that includes the content that you have given. For example, if you want to view lines that contain the word "interface" within a configuration, you can enter as **| include interface**.
output-modifiers **utility** *line*	Specifies various Unix command-line tools to manipulate or analyze the command's output. For example, if you want to sort the output of a command alphabetically, you can enter as **| utility sort**.

output-modifiers **file**	Saves the information to a specific file. For example, if you want to save information to a specific file, you can enter as **`| file filename vrf vrfname`**. You can save the content in the following locations: • *filename* - Save the output to a specified filename in VRF. • *append* - Add the output to the end of an existing file. • *config* - Save the output to the device's configuration. • *disk0* - Store the output on the device's disk0 storage. • *ftp* - Transfer and save the output to an FTP server. • *harddisk* - Save the output to the device's internal hard disk. • *http* - Send the output to an HTTP server. • *https* - Send the output to an HTTPS server. • *rootfs* - Save the output to the root file system of the device. • *scp* - Securely copy the output to a remote server using SCP. • *sftp* - Securely transfer the output to a remote server using SFTP. • *tftp* - Transfer the output to a TFTP server.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 7.3.5	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read

Task ID	Operations
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu stats voq** command displays packets that are processed on the NPU and dropped in the interface VoQs.

```
Router# show controllers npu stats voq ingress interface hundredGigE 0/0/0/16 instance all
 location 0/RP0/CPU0

Interface Name    =   Hu0/0/0/16
Interface Handle  =      f0001b0
Location          =   0/RP0/CPU0
Asic Instance     =            0
VOQ Base          =        10288
Port Speed(kbps)  =    100000000
Local Port        =        local
VOQ Mode          =            8
Shared Counter Mode =          2
       ReceivedPkts    ReceivedBytes   DroppedPkts     DroppedBytes
-------------------------------------------------------------------
TC_{0,1} = 114023724       39908275541     113945980       39881093000
TC_{2,3} = 194969733       68239406550     196612981       68814543350
TC_{4,5} = 139949276       69388697075     139811376       67907466750
TC_{6,7} = 194988538       68242491778     196612926       68814524100
```

show spp node-counters

To display the node counters for the Software Packet Path (SPP), use the **show spp node-counters** command in the XR EXEC mode.

show spp node-counters { [**drops**] **location** { *node-id* | *path* | *all* } | [*output-modifiers*] } [*output-modifiers* { **begin** *line* | **exclude** *line* | **file** | **include** *line* | **utility** *line* }]

Syntax Description

location *node-id*	Specifies the node. The *node-id* argument is entered in the *rack/slot/module* notation. Displays the information about a specific node.
location *all*	Displays information about all nodes.
output-modifiers **begin** *line*	Displays information from the line that matches to the given content. For example, if you want to display the running configuration starting from the interface configurations, you can enter as **| begin interface**.

output-modifiers **exclude** *line*	Displays information by filtering out lines that contain the given content. For example, if you want to view a configuration but skip all lines that mention "interface", you can enter as **| exclude interface**.
output-modifiers **include** *line*	Displays information that includes the content that you have given. For example, if you want to view lines that contain the word "interface" within a configuration, you can enter as **| include interface**.
output-modifiers **utility** *line*	Specifies various Unix command-line tools to manipulate or analyze the command's output. For example, if you want to sort the output of a command alphabetically, you can enter as **| utility sort**.

output-modifiers **file**	Saves the information to a specific file. For example, if you want to save information to a specific file, you can enter as **`| file filename vrf vrfname`**. You can save the content in the following locations: • *filename* - Save the output to a specified filename in VRF. • *append* - Add the output to the end of an existing file. • *config* - Save the output to the device's configuration. • *disk0* - Store the output on the device's disk0 storage. • *ftp* - Transfer and save the output to an FTP server. • *harddisk* - Save the output to the device's internal hard disk. • *http* - Send the output to an HTTP server. • *https* - Send the output to an HTTPS server. • *rootfs* - Save the output to the root file system of the device. • *scp* - Securely copy the output to a remote server using SCP. • *sftp* - Securely transfer the output to a remote server using SFTP. • *tftp* - Transfer the output to a TFTP server.
drops	(Optional) From Release 25.4.1, displays aggregated drop counters filtered for the Software Packet Path (SPP).

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 25.4.1	This command was modified to introduce the **drops** keyword.
Release 6.0.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
transport	read
optical	read

Examples

The **show spp node-counters** command displays the node counters for the SPP on a particular node or location.

```
Router# show spp node-counters location 0/0/CPU0
fretta/classify
      forwarded to spp clients:           10006
 forwarded NPU packet to NetIO:           10006
      dropped in classify node:              22
         Fwded to CoPP sampler:               2
                     PUNT ARP:                2
                    PUNT IFIB:           10006
                IFIB IPv4_STACK:           10000
                 IFIB RAWIP6_FM:               6
--------------------------------
client/inject
        pkts injected into spp:           10002
  NetIO->NPU injected into spp:           10002
          NetIO->NPU PROTO ARP:               2
         NetIO->NPU PROTO IPV4:           10000
--------------------------------
socket/rx
                ether raw pkts:           10030
--------------------------------
socket/tx
                       ce pkts:           10002
--------------------------------
client/punt
              punted to client:           10008
--------------------------------
```

The above sample displays only a part of the actual output; the actual output displays more details.

From Release 25.4.1, the **show spp node-counters drops** command displays aggregated drop counters filtered for the SPP.

```
Router# show spp node-counters drops
0/0/CPU0:
socket/rx
aggr-drop-counter: 371
--------------------------------
socket/tx
aggr-drop-counter: 372
```

show controllers npu card-fsm

To display card-fsm state transition information on controllers npu, use the **show controllers npu card-fsm** command in the XR EXEC mode.

show controllers npu card-fsm history [**slot** *number*] **location** *node-id*

Syntax Description

history	Displays history information of the card state transition from selected location.
slot	Displays history information of the card state transition from selected slot. Slot number ranges from 0-7.
location	Displays history information of the card state transition from selected node.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 24.3.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu card-fsm history location** command displays the history information of card state transition for the selected location.

```
Router# show controllers npu card-fsm history location 0/0/CPU0
Node ID: 0/0/CPU0
+-------------------------------------------------------------------------------------------------------------+
|  ASIC BMAP FROM SM                : 0x3             ASIC BMAP DEINIT DONE            :
0x0                                                     |
|  ASIC BMAP OFFLINE DONE           : 0x0             ASIC BMAP DEINIT IN PROG         :
0x0                                                     |
|  ASIC BMAP FOR OFA CLEANUP        : 0x0             ASIC BMAP FOR OFA CLEANUP ACK    :
0x0                                                     |
+-------------------------------------------------------------------------------------------------------------+
|  IS_CARD_SHUTDOWN_NOTIF_REQ       : 0               IS_CARD_SHUTDOWN_NOTIFIED        : 0
                                                        |
+-------------------------------------------------------------------------------------------------------------+
| Timestamp              | Event                      | Next State           | Description
                                                      |
+-------------------------------------------------------------------------------------------------------------+
| Nov 11 12:20:40.779170 | EV_ASIC_INIT_DONE           | UP_DONE              | Pon init
done for asic 0                                         |
| Nov 11 12:20:34.719699 | EV_ASIC_INIT_DONE           | UP_IN_PROG           | Pon init
done for asic 1                                         |
| Nov 11 12:20:05.590391 | EV_UP_DEVICE_INIT           | UP_IN_PROG           | Card state
 update notified to main for device handing             |
```

```
| Nov 11 12:20:04.896060 | EV_UP_MODULE_DONE           | UP_RCVD              | Card up
retimer, GPIO & MDIO init is done                      |
| Nov 11 12:20:04.774786 | EV_UP                       | UP_RCVD              | Card state
 update received from slicemgr                         |
|                                                      |
+------------------------------------------------------+-----------------------------------------------------------------------------------------------+
```

show controllers npu driver

To display driver information on controllers npu, use the **show controllers npu driver** command in the XR EXEC mode.

show controllers npu driver { **debug** [**hook** { **add** { **hook-id** *number* **value** *number* } | **clear** | **dump** } | | **reload** | { *enable* | *disable* }] | **location** { *node-id* | *all* } }

Syntax Description

debug	Displays commands to debug driver information.
hook	Displays hook information to change the router behaviors.
add *hook-id value*	Adds hook entry to the specific location table.
clear	Clears hook table from the specific location.
dump	Dumps hook table from the specific location.
reload	Enables or disables line card reload during driver restart.
location *node-id*	Displays the information about a specific node. The *node-id* argument is entered in the *rack/slot/module* notation.
location *all*	Displays information about all nodes.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 24.3.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read

Task ID	Operations
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu driver location all** command displays all driver information.

```
Router# show controllers npu driver location all
NPU Driver Information
===============================================
Driver Version: 1
SDK Version: 24.5.0.2.12_mig_xr_v1

Functional role: Active,     Rack: 8812, Type: lcc, Node: 0/0/CPU0
Driver ready      : Yes
NPU first started : Mon Nov 11 12:20:00 2024
Fabric Mode: FABRIC/8FC
NPU Power profile: NA
Driver Scope: Node
Respawn count     : 1
Availablity masks :
        card: 0x1,     asic: 0x3,    exp asic: 0x3
Weight distribution:
        Unicast: 80,      Multicast: 20
+-------------------------------------------------------------------+
| Process | Connection | Registration | Connection | DLL          |
| /Lib    | status     | status       | requests   | registration|
+-------------------------------------------------------------------+
| FSDB    | Active     | Active       |           1|  n/a         |
| FGID    | Inactive   | Inactive     |           0|  n/a         |
| AEL     | n/a        | n/a          |         n/a|  Yes         |
| SM      | n/a        | n/a          |         n/a|  Yes         |
+-------------------------------------------------------------------+

Asics :
HP - HotPlug event, PON - Power On reset
HR - Hard Reset,    WB  - Warm Boot
+-------------------------------------------------------------------------------+
| Asic inst. | fap|HP|Slice|Asic|Admin|Oper | Asic state | Last |PON|HR |  FW  |
|  (R/S/A)   | id |  |state|type|state|state|            | init |(#)|(#)|  Rev |
+-------------------------------------------------------------------------------+
| 0/0/0      |   0| 1| UP  |npu | UP  | UP  |NRML        |PON   |  1|  0|0x0000|
| 0/0/1      |   1| 1| UP  |npu | UP  | UP  |NRML        |PON   |  1|  0|0x0000|
+-------------------------------------------------------------------------------+

SI Info :
+-------------------------------------------------------------------------------------------+
|   Card  | Board      | SI Board | SI Param | Retimer SI    | Retimer SI    | Front Panel
   |
|         | HW Version | Version  | Version  | Board Version | Param Version | PHY
   |
+-------------------------------------------------------------------------------------------+
|  LC0    |  0.31      |     2    |    24    |       NA      |       NA      |  DEFAULT
   |
+-------------------------------------------------------------------------------------------+


===============================================
NPU Driver Information
```

```
==========================================
Driver Version: 1
SDK Version: 24.5.0.2.12_mig_xr_v1

Functional role: Active,     Rack: 8812, Type: lcc, Node: 0/RP0/CPU0
Driver ready      : Yes
NPU first started : Mon Nov 11 12:18:31 2024
Fabric Mode: FABRIC/8FC
NPU Power profile: NA
Driver Scope: Rack
Respawn count     : 1
Availablity masks :
        card: 0x3,     asic: 0x3f,    exp asic: 0x3f
Weight distribution:
        Unicast: 80,      Multicast: 20
+-------------------------------------------------------------------+
| Process | Connection | Registration | Connection | DLL             |
| /Lib    | status     | status       | requests   | registration|
+-------------------------------------------------------------------+
| FSDB    | Active     | Active       |           1|  n/a            |
| FGID    | Active     | Active       |           1|  n/a            |
| AEL     | n/a        | n/a          |         n/a|  Yes             |
| SM      | n/a        | n/a          |         n/a|  Yes             |
+-------------------------------------------------------------------+

Asics :
HP - HotPlug event, PON - Power On reset
HR - Hard Reset,    WB  - Warm Boot
+-------------------------------------------------------------------------------------+
| Asic inst. | fap|HP|Slice|Asic|Admin|Oper | Asic state | Last |PON|HR |  FW   |
|   (R/S/A)  | id |  |state|type|state|state|            | init |(#)|(#)|  Rev  |
+-------------------------------------------------------------------------------------+
| 0/FC0/0    | 200| 1| UP  |s123| UP  | UP  |NRML        |PON   |  1|  0|0x0000|
| 0/FC0/1    | 201| 1| UP  |s123| UP  | UP  |NRML        |PON   |  1|  0|0x0000|
| 0/FC0/2    | 202| 1| UP  |s123| UP  | UP  |NRML        |PON   |  1|  0|0x0000|
| 0/FC1/3    | 203| 1| UP  |s123| UP  | UP  |NRML        |PON   |  1|  0|0x0000|
| 0/FC1/4    | 204| 1| UP  |s123| UP  | UP  |NRML        |PON   |  1|  0|0x0000|
| 0/FC1/5    | 205| 1| UP  |s123| UP  | UP  |NRML        |PON   |  1|  0|0x0000|
+-------------------------------------------------------------------------------------+

SI Info :
+-------------------------------------------------------------------------------------------------+
|   Card  | Board      | SI Board | SI Param | Retimer SI    | Retimer SI    | Front Panel
   |
|         | HW Version | Version  | Version  | Board Version | Param Version | PHY
   |
+-------------------------------------------------------------------------------------------------+
|  FC0    |  0.51      |     4    |    29    |        4      |       29      |       NA
   |
|  FC1    |  0.51      |     4    |    29    |        4      |       29      |       NA
   |
+-------------------------------------------------------------------------------------------------+
```

show controllers npu packet-latency instance

To view the cumulative packet count in the latency histogram bin for all Traffic Class (TC) or each TC since either system bootup or the last clear, use the **show controllers npu packet-latency instance** command in the XR EXEC mode.

show controllers npu packet-latency instance *instance-id* { **location** *node-id* | **slice** *slice-id* **IFG** *interface-group-id* **traffic-class** *traffic-class-id* **location** *node-id* }

Syntax Description

instance *instance-id*	Displays cumulative information about all the slice, Inter-Frame Gap (IFG), and TC in the specific instance.
slice *slice-id*	Specifies the slice id, ranging from 0-7.
IFG *interface-group-id*	Specifies the interface group id, ranging from 0-1.
traffic-class *traffic-class-id*	Specifies the traffic class id, ranging from 0-7.
location *node-id*	Displays the information about a specific node. The node-id argument is entered in the *rack/slot/module* notation.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 25.3.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu packet-latency instance** command displays the cumulative packet count in the latency histogram bin with granularity for slice, IFG, location, and traffic class.

The following output displays cumulative packet count in the latency histogram bin for all TCs on slice 2, IFG 1, and location 0/2/CPU0:

For example, in the below output you can see that

- 1,627,324,790 packets experienced a latency around 6000 nanoseconds
- while 387,009 packets experienced latency around 7000 nanoseconds, and
- the maximum observed delay for this traffic class in this instance was 6400 nanoseconds.

```
Router# show controllers npu packet-latency instance 0 slice 2 ifg 1 location 0/2/CPU0
```

```
Packet Latency Histogram Bin Range In nanosecond: Node ID: 0/2/CPU0
Time             NPU  Slice IFG TC        5000        6000        7000        8000
9000        10000       15000    4000000000  Max_delay
------------------------------------------------------------------------------------------------------------------------
14:43:50.043 EDT   0   2    1    0           0           0           0           0
    0           0           0           0           0
14:43:50.043 EDT   0   2    1    1           0           0           0           0
    0           0           0           0           0
14:43:50.043 EDT   0   2    1    2           0  1627324790      387009           0
    0           0           0           0        6400
14:43:50.043 EDT   0   2    1    3           0           0           0           0
    0           0           0           0           0
14:43:50.043 EDT   0   2    1    4           0           0           0           0
    0           0           0           0           0
14:43:50.043 EDT   0   2    1    5           0           0           0           0
    0           0           0           0           0
14:43:50.043 EDT   0   2    1    6           0   102965743    28788249       10708
    0           0           0           0        7936
14:43:50.043 EDT   0   2    1    7       38680          15           1           1
    0           0           0           0        7680
```

The following output displays the cumulative packet count in the latency histogram bin for a specific TC 6 on slice 2, IFG 1, and location 0/2/CPU0:

```
Router# show controllers npu packet-latency instance 0 slice 2 ifg 1 traffic-class 6 location
 0/2/CPU0

------------------------------------------------------------------------------------------------------------------------
Packet Latency Histogram Bin Range In nanosecond: Node ID: 0/2/CPU0
Time             NPU  Slice IFG TC        5000        6000        7000        8000
9000        10000       15000    4000000000  Max_delay
------------------------------------------------------------------------------------------------------------------------
14:48:49.383 EDT   0   2    1    6           0  2249220704   667817683      238920
   52           0           0           0        8192
```

The following output displays the cumulative packet count in the latency histogram bin for a specific location 0/2/CPU0:

```
Router# show controllers npu packet-latency instance 0 location 0/2/CPU0

------------------------------------------------------------------------------------------------------------------------
Packet Latency Histogram Bin Range In nanosecond: Node ID: 0/2/CPU0
Time             NPU  Slice IFG TC        5000        6000        7000        8000
9000        10000       15000    4000000000  Max_delay
------------------------------------------------------------------------------------------------------------------------
12:54:27.657 EDT   0   0    0    0           0           0           0           0
    0           0           0           0           0
12:54:27.657 EDT   0   0    0    1           0           0           0           0
    0           0           0           0           0
12:54:27.657 EDT   0   0    0    2           0           0           0           0
    0           0           0           0           0
12:54:27.657 EDT   0   0    0    3           0           0           0           0
    0           0           0           0           0
12:54:27.657 EDT   0   0    0    4           0           0           0           0
    0           0           0           0           0
12:54:27.657 EDT   0   0    0    5           0           0           0           0
    0           0           0           0           0
12:54:27.657 EDT   0   0    0    6           0  3110652746  3246447410   963357617
25638           0           0           0        8704
12:54:27.657 EDT   0   0    0    7        8357        9249          15          15
    0           0           0           0        7680
```

show controllers npu retimer

To display number of retimer retrieved on npu controllers, use the **show controllers npu retimer** command in the XR EXEC mode.

show controllers npu retimer { **id** [**number** | **all**] | **slot** *number* | *all* }

Syntax Description

number	Specifies the number of retimers retrieved from a selected instance. Retimer number ranges from 0-47.
all	Specifies the number of retimers retrieved from all instance.
slot *number*	Displays retrieved retimer information for the selected slot number. Slot number ranges from 0-7.
slot *all*	Displays retrieved retimer information for all the slots.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 24.3.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu retimer id** command displays the information on the retrieved retimers.

```
Router# show controllers npu retimer id all slot all
============================================================
Retimer information
Number of retimers retrieved : 0
============================================================
```

show controllers npu slice

To display components to manage npu slice, use the **show controllers npu slice** command in the XR EXEC mode.

show controllers npu slice { **health** | **info** [**slice** { *id* | *all* }] **location** { *node-id* | *all* } }

Syntax Description

health	Displays the health check results for a specific location.
info	Displays the slice information of the specified card.
location *node-id*	Displays the information about a specific node. The *node-id* argument is entered in the *rack/slot/module* notation.
location *all*	Displays information about all nodes.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 24.3.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu slice** command displays the slice manager component.

```
Router# show controllers npu slice health location all
================================================
slice check, node: 0/0/CPU0
================================================
phy slot number:      0
logical slot number:  0
board type:           0x470636
card state:           Operational
oper state:           Up
number of slices:     2
== No issue found on this card ==
```

```
==============================================
slice check, node: 0/RP0/CPU0
==============================================
phy slot number:      30
logical slot number:  0
board type:           0x450614
card state:           Operational
oper state:           Up
number of slices:     0
== No issue found on this card ==

phy slot number:      18
logical slot number:  0
board type:           0x460621
card state:           Operational
oper state:           Up
number of slices:     3
== No issue found on this card ==

phy slot number:      19
logical slot number:  1
board type:           0x460621
card state:           Operational
oper state:           Up
number of slices:     3
== No issue found on this card ==
```

show controllers npu trace

To display trace data for npu component on controllers npu, use the **show controllers npu trace** command in the XR EXEC mode.

show controllers npu trace { **aipc-error** | **aipc-info** | **all** | **connection** | **connection-error** | **device-error** | **device-info** | **fgid** | **fgid-error** | **fm-msgs** | **fm-msgs-error** | **fsdb** | **fsdb-error** | **fsm-error** | **fsm-info** | **initialization** | **initialization-error** | **intr** | **intr-error** | **link-error** | **link-info** | **main** | **main-error** | **pfc-error** | **pfc-info** | **ras-error** | **sdk** | **sdk-error** } **location** *node-id*

Syntax Description

aipc-error	Displays trace data for aipc-error.
aipc-info	Displays trace data for aipc-info.
all	Displays trace data for all events.
connection	Displays trace data for connection management processing events.
connection-error	Displays trace data for connection error management processing events.
device-error	Displays trace data for device error events.
device-info	Displays trace data for device events such as traffic and time_sync.

fgid	Displays trace data for feature group id (fgid) server processing events.
fgid-error	Displays trace data for feature group id error processing events.
fm-msgs	Displays trace data for fault management (fm) events.
fm-msgs-error	Displays trace data for fault management error events.
fsdb	Displays trace data for fabric state database (fsdb) message processing events.
fsdb-error	Displays trace data for fabric state database error processing events.
fsm-error	Displays trace data for finite state machine (fsm) error events.
fsm-info	Displays trace data for finite state machine event information.
initialization	Displays trace data for initialization management processing events.
initialization-error	Displays trace data for initialization error management processing events.
intr	Displays trace data for inter message processing events
intr-error	Displays trace data for inter error processing events
link-error	Displays trace data for link error events.
link-info	Displays trace data information for link events.
main	Displays trace data for main events.
main-error	Displays trace data for main error events.
pfc-error	Displays trace data for policy feature card (pfc) error events.
pfc-info	Displays trace data for policy feature card event information.
ras-error	Displays trace data for remote access service (ras) errors.
ras-info	Displays trace data for remote access service information.
sdk	Displays trace data for software development kit (sdk) events.

sdk-error	Displays trace data for software development kit error events.
location *node-id*	Displays the information about a specific node. The *node-id* argument is entered in the *rack/slot/module* notation.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 24.3.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu trace** command displays the trace data for npu components.

```
Router# show controllers npu trace connection location 0/0/CPU0
2024-11-12:21.13.37.291482112:4908:1859349056:npu_inv_filter_ds_endpoints:NPU_TRACE_INV_SERV_FILTER_INFO1:npu_inv_filter_ds_endpoints:
 NPU Driver connected to Inventory service in rack scope
2024-11-12:21.13.37.293459712:4908:1859349056:npu_inv_connect_cb:NPU_TRACE_AMBIENT_INF895:npu_inv_connect_cb():
 from ip ac001e01, port 36787
2024-11-12:21.13.39.457122560:4908:1859349056:npu_envmon_client_init:NPU_TRACE_ENVMON_INIT_INFO1:npu_envmon_client_init:
 SPI envmon handle created 0x0x55c384bf38a0
2024-11-12:21.13.39.458469120:4908:1859349056:npu_envmon_client_init:NPU_TRACE_ENVMON_INIT_INFO2:npu_envmon_client_init:
 Successfully connected to SPI envmon
2024-11-12:21.13.39.749300992:4908:1859349056:npu_inv_resp_register_event_cb:NPU_TRACE_AMBIENT_INF957:npu_inv_resp_register_event_cb():
 flags 0x00000001 rc 0 (ack REG_OK) received from ip ac001e01, port 36787
2024-11-12:21.13.39.751215360:4908:1859349056:npu_inv_resp_register_event_cb:NPU_TRACE_AMBIENT_INF957:npu_inv_resp_register_event_cb():
 flags 0x00000001 rc 0 (ack REG_OK) received from ip ac001e01, port 36787
2024-11-12:21.13.39.758479616:4908:1859349056:npu_envmon_filter_cb:NPU_TRACE_ENVMON_FILTER_INFO1:npu_envmon_filter_cb:NPU
 Driver connected to node scope Envmon service
2024-11-12:21.13.39.759417856:4908:1859349056:npu_fsdb_connect_cb:NPU_TRACE_CONN1:Called:
Driver-FSDB
connected2024-11-12:21.13.39.759440896:4908:1859349056:npu_fsdb_connect_cb:NPU_TRACE_CONN2:NPU
 to FSDB Slot mask: 0x1
2024-11-12:21.13.39.759500288:4908:1859349056:npu_fsdb_connect_cb:NPU_TRACE_CONN3:NPU driver
 client registration request to FSDB.
2024-11-12:21.13.39.759523328:4908:1859349056:npu_envmon_connect_cb:NPU_TRACE_ENVMON_CONN_INFO1:npu_envmon_connect_cb:
 NPU Driver-SPI envmon connected
2024-11-12:21.13.39.773804800:4908:1859349056:npu_sm_connect:NPU_TRACE_CM_506:Successfully
 registered with slice manager using pid: 8800-LC-48H
2024-11-12:21.13.39.773830912:4908:1859349056:npu_fsdb_registered_cb:NPU_TRACE_CONN9:Called
 Driver-FSDB registered
```

```
2024-11-12:21.13.39.773831680:4908:1859349056:npu_fsdb_registered_cb:NPU_TRACE_CONN21:Received
 fabric_mode : 3 from FSDB. Is fabric_mode pending: 0
2024-11-12:21.13.39.773832192:4908:1859349056:npu_fsdb_registered_cb:NPU_TRACE_CONN10:NPU
driver registered as client with FSDB.
```

show controllers npu voq-usage

To display usage data related to Virtual Output Queues (VOQs) on an NPU, use the **show controllers npu voq-usage** command in the XR EXEC mode.

show controllers npu voq-usage { { **interface** *number* | *interface* | *all* **resource-manager** *local* } | **instance** *id* | *all* }

Syntax Description

interface	Displays voq data usage for a selected interface.
resource-manager	Displays number of voq data available for each interface.

Command Default

None

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 24.3.1	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
interface	read
filesystem	read, write
cisco-support	read

Examples

The **show controllers npu voq-usage** command displays usage data related to Virtual Output Queues (VOQs) on an npu.

```
Router# show controllers npu voq-usage interface all instance all location 0/0/CPU0
--------------------------------------------------------------------------------------
Node ID: 0/0/CPU0
Intf         Intf     NPU Slice IFG  Sys   VOQ   Flow       VOQ      Port       Global
name         handle    #    #    #   Port  base  base       port     speed      IFG #
             (hex)                                         type
--------------------------------------------------------------------------------------
Hu0/0/0/0    190       0   1    0     4   1296      0        local    100G       2
Hu0/0/0/1    198       0   2    1     5   1312      0        local    100G       5
Hu0/0/0/2    1a0       0   2    1     6   1320      0        local    100G       5
```

```
Hu0/0/0/3    1a8       0   1    0     7   1304      0        local    100G      2
Hu0/0/0/4    1b0       0   2    1     8   1328      0        local    100G      5
Hu0/0/0/5    1b8       0   2    1     9   1336      0        local    100G      5
Hu0/0/0/6    1c0       0   1    0    10   1344      0        local    100G      2
Hu0/0/0/7    1c8       0   2    0    11   1360      0        local    100G      4
Hu0/0/0/8    1d0       0   2    0    12   1368      0        local    100G      4
Hu0/0/0/9    1d8       0   1    0    13   1352      0        local    100G      2
Hu0/0/0/10   1e0       0   2    0    14   1376      0        local    100G      4
Hu0/0/0/11   1e8       0   2    0    15   1384      0        local    100G      4
Hu0/0/0/12   1f0       0   1    1    16   1392      0        local    100G      3
Hu0/0/0/13   1f8       1   2    1    17   1408      0        local    100G      5
Hu0/0/0/14   200       1   2    1    18   1416      0        local    100G      5
Hu0/0/0/15   208       0   1    1    19   1400      0        local    100G      3
Hu0/0/0/16   210       1   2    1    20   1424      0        local    100G      5
Hu0/0/0/17   218       1   2    1    21   1432      0        local    100G      5
Hu0/0/0/18   220       0   1    1    22   1440      0        local    100G      3
Hu0/0/0/19   228       1   2    0    23   1456      0        local    100G      4
Hu0/0/0/20   230       1   2    0    24   1464      0        local    100G      4
Hu0/0/0/21   238       0   1    1    25   1448      0        local    100G      3
Hu0/0/0/22   240       1   2    0    26   1472      0        local    100G      4
Hu0/0/0/23   248       1   2    0    27   1480      0        local    100G      4
Hu0/0/0/24   250       0   0    1    28   1488      0        local    100G      1
Hu0/0/0/25   258       1   1    1    29   1504      0        local    100G      3
Hu0/0/0/26   260       1   1    1    30   1512      0        local    100G      3
Hu0/0/0/27   268       0   0    1    31   1496      0        local    100G      1
Hu0/0/0/28   270       1   1    1    32   1520      0        local    100G      3
Hu0/0/0/29   278       1   1    1    33   1528      0        local    100G      3
Hu0/0/0/30   280       0   0    1    34   1536      0        local    100G      1
Hu0/0/0/31   288       1   1    0    35   1552      0        local    100G      2
Hu0/0/0/32   290       1   1    0    36   1560      0        local    100G      2
Hu0/0/0/33   298       0   0    1    37   1544      0        local    100G      1
Hu0/0/0/34   2a0       1   1    0    38   1568      0        local    100G      2
Hu0/0/0/35   2a8       1   1    0    39   1576      0        local    100G      2
Hu0/0/0/36   2b0       0   0    0    40   1584      0        local    100G      0
Hu0/0/0/37   2b8       1   0    1    41   1600      0        local    100G      1
Hu0/0/0/38   2c0       1   0    1    42   1608      0        local    100G      1
Hu0/0/0/39   2c8       0   0    0    43   1592      0        local    100G      0
Hu0/0/0/40   2d0       1   0    1    44   1616      0        local    100G      1
Hu0/0/0/41   2d8       1   0    1    45   1624      0        local    100G      1
Hu0/0/0/42   2e0       0   0    0    46   1632      0        local    100G      0
Hu0/0/0/43   2e8       1   0    0    47   1648      0        local    100G      0
Hu0/0/0/44   2f0       1   0    0    48   1656      0        local    100G      0
Hu0/0/0/45   2f8       0   0    0    49   1640      0        local    100G      0
Hu0/0/0/46   300       1   0    0    50   1664      0        local    100G      0
Hu0/0/0/47   308       1   0    0    51   1672      0        local    100G      0
```