show virtual-chassis vc-port statistics

Syntax

show virtual-chassis vc-port statistics
<all-members>
<brief | detail | extensive >
<*interface-name*>
<local>
<member *member-id*>

Release Information

Command introduced in JUNOS Release 9.0 for EX Series switches.
The options all-members, brief, detail, extensive, and local were added in JUNOS Release 9.3 for EX Series switches.

Description

Display the traffic statistics collected on Virtual Chassis ports (VCPs).

Options

none—Display traffic statistics for the VCPs of all members of a Virtual Chassis configuration.

brief | detail | extensive—(Optional) Display the specified level of output. Using the brief option is equivalent to entering the command with no options (the default). The detail and extensive options provide identical displays.

all-members—(Optional) Display traffic statistics for the VCPs of all members of a Virtual Chassis configuration.

interface-name—(Optional) Name of the VCP interface for which to display traffic statistics. Specify either vcp-0 or vcp-1 or an internal port in the VCP subsystem—for example, internal-0/24.

local—(Optional) Display VCP traffic statistics for only the switch on which this command is entered.

member *member-id*—(Optional) Display VCP traffic statistics for only the specified member of a Virtual Chassis configuration.

Required Privilege Level

view

Related Topics

- clear virtual-chassis vc-port statistics
- show virtual-chassis vc-port
- Monitoring Virtual Chassis Configuration Status and Statistics

List of Sample Output

Output Fields

Table 1 lists the output fields for the show virtual-chassis vc-port statistics command. Output fields are listed in the approximate order in which they appear.

Table 1: show virtual-chassis vc-port statistics Output Fields

Field Name	Field Description	Level of Output
fpc*number*	ID of the Virtual Chassis member. The FPC number is the same as the member ID.	All levels
Interface	VCP interface name. Unlike network interface names, a VCP interface does not include a slot number (member ID). ■ The dedicated VCPs are vcp-0 and vcp-1. ■ Ports internal to the VCP subsystem have names corresponding to the PIC and port number. For example, 0/24 indicates internal onboard port 24, and 1/26 indicates internal uplink module port 26.	brief
Input Octets/Packets	Total number of octets and packets received on the VCP interface.	brief member none
Output Octets/Packets	Total number of octets and packets transmitted on the VCP interface.	brief member none
master: *number*	Member ID of the Virtual Chassis master.	All levels
Port	VCP for which RX (Receive) statistics,TX (Transmit) statistics, or both are reported by the VCP subsystem during a sampling interval—since the statistics counter was last cleared.	detail extensive
Total octets	Total number of octets received and transmitted on the VCP interface.	detail extensive
Total packets	Total number of packets received and transmitted on the VCP interface.	detail extensive
Unicast packets	Number of unicast packets received and transmitted on the VCP interface.	detail extensive
Broadcast packets	Number of broadcast packets received and transmitted on the VCP interface.	detail extensive
Multicast packets	Number of multicast packets received and transmitted on the VCP interface.	detail extensive
MAC control frames	Number of media access control (MAC) control frames received and transmitted on the VCP interface.	detail extensive
CRC alignment errors	Number of packets received on the VCP interface that had a length—excluding framing bits, but including frame check sequence (FCS) octets—of between 64 and 1518 octets, inclusive, and had one of the following errors: ■ Invalid FCS with an integral number of octets (FCS error) ■ Invalid FCS with a nonintegral number of octets (alignment error)	detail extensive
Oversize packets	Number of packets received on the VCP interface that were longer than 1518 octets (excluding framing bits, but including FCS octets) but were otherwise well formed.	detail extensive
Undersize packets	Number of packets received on the VCP interface that were shorter than 64 octets (excluding framing bits but including FCS octets) and were otherwise well formed..	detail extensive

Table 1: show virtual-chassis vc-port statistics Output Fields *(continued)*

Field Name	Field Description	Level of Output
Jabber packets	Number of packets received on the VCP interface that were longer than 1518 octets—excluding framing bits, but including FCS octets—and that had either an FCS error or an alignment error. **NOTE:** This definition of *jabber* is different from the definition in IEEE-802.3 section 8.2.1.5 (10Base5) and section 10.3.1.4 (10Base2). These documents define *jabber* as the condition in which any packet exceeds 20 ms. The allowed range to detect jabber is between 20 ms and 150 ms.	detail extensive
Fragments received	Number of packets received on the VCP interface that were shorter than 64 octets (excluding framing bits, but including FCS octets), and had either an FCS error or an alignment error. Fragment frames normally increment because both runts (which are normal occurrences caused by collisions) and noise hits are counted.	detail extensive
Ifout errors	Number of outbound packets received on the VCP interface that could not be transmitted because of errors.	detail extensive
Packet drop events	Number of outbound packets received on the VCP interface that were dropped, rather than being encapsulated and sent out of the switch as fragments. The packet drop counter is incremented if a temporary shortage of packet memory causes packet fragmentation to fail.	detail extensive
64 octets frames	Number of packets received on the VCP interface (including invalid packets) that were 64 octets in length (excluding framing bits, but including FCS octets).	detail extensive
65–127 octets frames	Number of packets received on the VCP interface (including invalid packets) that were between 65 and 127 octets in length, inclusive (excluding framing bits, but including FCS octets).	detail extensive
128–255 octets frames	Number of packets received on the VCP interface (including invalid packets) that were between 128 and 255 octets in length, inclusive (excluding framing bits, but including FCS octets).	detail extensive
256–511 octets frames	Number of packets received on the VCP interface (including invalid packets) that were between 256 and 511 octets in length, inclusive (excluding framing bits, but including FCS octets).	detail extensive
512–1023 octets frames	Number of packets received on the VCP interface (including invalid packets) that were between 512 and 1023 octets in length, inclusive (excluding framing bits, but including FCS octets).	detail extensive
1024–1518 octets frames	Number of packets received on the VCP interface (including invalid packets) that were between 1024 and 1518 octets in length, inclusive (excluding framing bits, but including FCS octets).	detail extensive
Rate packets per second	Number of packets per second received and transmitted on the VCP interface.	detail extensive
Rate bytes per second	Number of bytes per second received and transmitted on the VCP interface.	detail extensive

show virtual-chassis vc-port statistics

```
user@SWA-0> show virtual-chassis vc-port statistics
fpc0:
--------------------------------------------------------------------------
Interface             Input Octets/Packets          Output Octets/Packets
internal-0/24         0           / 0               0           / 0
internal-0/25         0           / 0               0           / 0
internal-1/26         0           / 0               0           / 0
internal-1/27         0           / 0               0           / 0
vcp-0                 0           / 0               0           / 0
vcp-1                 0           / 0               0           / 0
internal-0/26         0           / 0               0           / 0
internal-0/27         0           / 0               0           / 0
internal-1/24         0           / 0               0           / 0
internal-1/25         0           / 0               0           / 0

{master:0}
```

show virtual-chassis vc-port statistics brief

```
user@SWA-0> show virtual-chassis vc-port statistics brief
fpc0:
--------------------------------------------------------------------------
Interface             Input Octets/Packets          Output Octets/Packets
internal-0/24         0           / 0               0           / 0
internal-0/25         0           / 0               0           / 0
internal-1/26         0           / 0               0           / 0
internal-1/27         0           / 0               0           / 0
vcp-0                 0           / 0               0           / 0
vcp-1                 0           / 0               0           / 0
internal-0/26         0           / 0               0           / 0
internal-0/27         0           / 0               0           / 0
internal-1/24         0           / 0               0           / 0
internal-1/25         0           / 0               0           / 0

{master:0}
```

show virtual-chassis vc-port statistics extensive

```
user@SWA-0> show virtual-chassis vc-port statistics extensive
fpc0:
--------------------------------------------------------------------------

                            RX                    TX

Port: internal-0/24
Total octets:               0                     0
Total packets:              0                     0
Unicast packets:            0                     0
Broadcast packets:          0                     0
Multicast packets:          0                     0
MAC control frames:         0                     0
CRC alignment errors:       0
Oversize packets:           0
Undersize packets:          0
Jabber packets:             0
Fragments received:         0
Ifout errors:               0
Packet drop events:         0
64        octets frames:    0
65-127    octets frames:    0
128-255   octets frames:    0
256-511   octets frames:    0
512-1023  octets frames:    0
1024-1518 octets frames:    0
Rate packets per second:    0                     0
```

```
Rate bytes per second:     0                    0

...

Port: vcp-0
Total octets:              0                    0
Total packets:             0                    0
Unicast packets:           0                    0
Broadcast packets:         0                    0
Multicast packets:         0                    0
MAC control frames:        0                    0
CRC alignment errors:      0
Oversize packets:          0
Undersize packets:         0
Jabber packets:            0
Fragments received:        0
Ifout errors:              0
Packet drop events:        0
64        octets frames:   0
65-127    octets frames:   0
128-255   octets frames:   0
256-511   octets frames:   0
512-1023  octets frames:   0
1024-1518 octets frames:   0
Rate packets per second:   0                    0
Rate bytes per second:     0                    0

Port: vcp-1
Total octets:              0                    0
Total packets:             0                    0
Unicast packets:           0                    0
Broadcast packets:         0                    0
Multicast packets:         0                    0
MAC control frames:        0                    0
CRC alignment errors:      0
Oversize packets:          0
Undersize packets:         0
Jabber packets:            0
Fragments received:        0
Ifout errors:              0
Packet drop events:        0
64        octets frames:   0
65-127    octets frames:   0
128-255   octets frames:   0
256-511   octets frames:   0
512-1023  octets frames:   0
1024-1518 octets frames:   0
Rate packets per second:   0                    0
Rate bytes per second:     0                    0

...

{master:0}
```

show virtual-chassis vc-port statistics member 0

```
user@SWA-0>show virtual-chassis vc-port statistics member 0
fpc0:
--------------------------------------------------------------------------
Interface             Input Octets/Packets          Output Octets/Packets
internal-0/24         0           / 0               0           / 0
internal-0/25         0           / 0               0           / 0
internal-1/26         0           / 0               0           / 0
```

```
internal-1/27          0          / 0              0          / 0
vcp-0                  0          / 0              0          / 0
vcp-1                  0          / 0              0          / 0
internal-0/26          0          / 0              0          / 0
internal-0/27          0          / 0              0          / 0
internal-1/24          0          / 0              0          / 0
internal-1/25          0          / 0              0          / 0

{master:0}
```

Published: 2009-07-29