



# R Commands

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This chapter describes the Cisco NX-OS interface commands that begin with R.

# rate-limit cpu direction

To set the packet per second (PPS) rate limit for an interface, use the **rate-limit cpu direction** command. To revert to the default value, use the **no** form of this command.

**rate-limit cpu direction** { **both** | **input** | **output** } **pps** *pps\_value* **action** **log**

**no rate-limit cpu direction** { **both** | **input** | **output** } **pps** *pps\_value* **action** **log**

## Syntax Description

|                             |                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------|
| <b>both</b>                 | Sets the maximum input and output packet rate.                                        |
| <b>input</b>                | Sets the maximum input packet rate.                                                   |
| <b>output</b>               | Sets the maximum output packet rate.                                                  |
| <b>pps</b> <i>pps_value</i> | Specifies the packets per second. The range is from 0 to 100,000.                     |
| <b>action</b>               | Specifies the action is logged.                                                       |
| <b>log</b>                  | Writes a syslog message if the PPS value matches or exceeds the specified rate limit. |

## Command Default

None

## Command Modes

Interface configuration mode

## Command History

| Release     | Modification                 |
|-------------|------------------------------|
| 6.0(2)N1(1) | This command was introduced. |

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to set the maximum input packet rate to 3 for an interface and enable the logging of syslog messages:

```
switch# configure terminal
switch(config)# interface ethernet 1/5
switch(config-if)# rate-limit cpu direction input pps 3 action log
switch(config-if)#
```

## Related Commands

| Command                    | Description                                            |
|----------------------------|--------------------------------------------------------|
| <b>show running-config</b> | Displays the running system configuration information. |

**Related Commands**

| Command                     | Description                                                                        |
|-----------------------------|------------------------------------------------------------------------------------|
| <b>remote ip address</b>    | Configures the IPv4 address for a remote machine.                                  |
| <b>remote port</b>          | Configures the TCP port for a remote machine.                                      |
| <b>remote vrf</b>           | Configures the virtual routing and forwarding (VRF) instance for a remote machine. |
| <b>show svs connections</b> | Displays SVS connection information.                                               |
| <b>svs connection</b>       | Enables an SVS connection.                                                         |

