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## P Commands

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This chapter describes the basic Cisco NX-OS system commands that begin with P.

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# parity

To configure the parity for the console port, use the **parity** command. To revert to the default, use the **no** form of this command.

**parity** { **even** | **none** | **odd** }

**no parity** { **even** | **none** | **odd** }

## Syntax Description

<b>even</b>	Specifies even parity.
<b>none</b>	Specifies no parity.
<b>odd</b>	Specifies odd parity.

## Command Default

The **none** keyword is the default.

## Command Modes

Terminal line configuration mode

## Command History

Release	Modification
4.0(0)N1(1a)	This command was introduced.

## Usage Guidelines

You can configure the console port only from a session on the console port.

## Examples

This example shows how to configure the parity for the console port:

```
switch# configure terminal
switch(config)# line console
switch(config-console)# parity even
```

This example shows how to revert to the default parity for the console port:

```
switch# configure terminal
switch(config)# line console
switch(config-console)# no parity even
```

## Related Commands

Command	Description
<b>show line</b>	Displays information about the console port configuration.

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# ping

To determine the network connectivity to another network device, use the **ping** command.

```
ping {dest-address | hostname} [count {number | unlimited}] [df-bit] [interval seconds]
[packet-size bytes] [source src-address] [timeout seconds] [vrf {vrf-name | default |
management}]
```

Syntax Description	
<i>dest-address</i>	IPv4 address of the destination device. The format is <i>A.B.C.D</i> .
<i>hostname</i>	Hostname of the destination device. The hostname is case sensitive.
<b>count</b>	(Optional) Specifies the number of transmissions to send.
<i>number</i>	Number of pings. The range is from 1 to 655350. The default is 5.
<b>unlimited</b>	Allows an unlimited number of pings.
<b>df-bit</b>	(Optional) Enables the do-not-fragment bit in the IPv4 header. The default is disabled.
<b>interval</b> <i>seconds</i>	(Optional) Specifies the interval in seconds between transmissions. The range is from 0 to 60. The default is 1 second.
<b>packet-size</b> <i>bytes</i>	(Optional) Specifies the packet size in bytes to transmit. The range is from 1 to 65468. The default is 56 bytes.
<b>source</b> <i>scr-address</i>	(Optional) Specifies the source IPv4 address to use. The format is <i>A.B.C.D</i> . The default is the IPv4 address for the management interface of the device.
<b>timeout</b> <i>seconds</i>	(Optional) Specifies the nonresponse timeout interval in seconds. The range is from 1 to 60. The default is 2 seconds.
<b>vrf</b> <i>vrf-name</i>	(Optional) Specifies the virtual routing and forwarding (VRF) to use. The name is case sensitive and can be a maximum of 32 characters.
<b>default</b>	(Optional) Specifies the default VRF.
<b>management</b>	(Optional) Specifies the management VRF.

**Command Default** For the default values, see the “Syntax Description” section for this command.

**Command Modes** EXEC mode

Command History	Release	Modification
	4.0(0)N1(1a)	This command was introduced.

**Examples** This example shows how to determine connectivity to another network device:

```
switch# ping 192.168.2.246
```

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Related Commands	Command	Description
	<b>ping6</b>	Determines connectivity to another device using IPv6 addressing.
	<b>traceroute</b>	Displays the routes that packets take when traveling to an IP address.

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# ping6

To determine the network connectivity to another device using IPv6 addressing, use the **ping6** command.

```
ping6 { dest-address | hostname } [count { number | unlimited }] [interface intf-id] [interval
seconds] [packet-size bytes] [source address] [timeout seconds] [vrf { vrf-name | default |
management }]
```

Syntax Description	
<i>dest-address</i>	Destination IPv6 address. The format is <i>A:B::C:D</i> .
<i>hostname</i>	Hostname of destination device. The hostname is case sensitive.
<b>count</b>	(Optional) Specifies the number of transmissions to send.
<i>number</i>	Number of pings. The range is from 1 to 655350. The default is 5.
<b>unlimited</b>	Allows an unlimited number of pings.
<b>interface</b> <i>intf-id</i>	(Optional) Specifies the interface to send the IPv6 packet. The valid interface types are Ethernet, loopback, EtherChannel, and VLAN.
<b>interval</b> <i>seconds</i>	(Optional) Specifies the interval in seconds between transmissions. The range is from 0 to 60. The default is 1 second.
<b>packet-size</b> <i>bytes</i>	(Optional) Specifies the packet size in bytes to transmit. The range is from 1 to 65468.
<b>source</b> <i>address</i>	(Optional) Specifies the source IPv6 address to use. The format is <i>A:B::C:D</i> . The default is the IPv6 address for the management interface of the device.
<b>timeout</b> <i>seconds</i>	(Optional) Specifies the nonresponse timeout interval in seconds. The range is from 1 to 60. The default is 2 seconds.
<b>vrf</b> <i>vrf-name</i>	(Optional) Specifies the virtual routing and forwarding (VRF) to use. The name is case sensitive and can be a maximum of 32 alphanumeric characters.
<b>default</b>	(Optional) Specifies the default VRF.
<b>management</b>	(Optional) Specifies the management VRF.

**Command Default** For the default values, see the “Syntax Description” section for this command.

**Command Modes** EXEC mode

Command History	Release	Modification
	4.0(1a)N1(1)	This command was introduced.

**Examples** This example shows how to determine connectivity to another device using IPv6 addressing:

```
switch# ping6 2001:0DB8::200C:417A vrf management
```

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**Related Commands**

Command	Description
<b>ping</b>	Determines connectivity to another device using IPv4 addressing.
<b>traceroute6</b>	Displays the routes that packets take when traveling to an IPv6 address.