



APPENDIX **C**

Catalyst 2975 Switch Show Platform Commands

This appendix describes the **show platform** privileged EXEC commands that have been created or changed for use with the Catalyst 2975 switch. These commands display information helpful in diagnosing and resolving internetworking problems and should be used only under the guidance of Cisco technical support staff.

show platform acl

Use the **show platform acl** privileged EXEC command to display platform-dependent access control list (ACL) manager information.

```
show platform acl { interface interface-id | label label-number [detail] | statistics asic-number |
usage asic-number [summary] | vlan vlan-id } [ | { begin | exclude | include } expression ]
```

Syntax Description

interface <i>interface-id</i>	Display per-interface ACL manager information for the specified interface. The interface can be a physical interface or a VLAN.
label <i>label-number</i> [detail]	Display per-label ACL manager information. The <i>label-number</i> range is 0 to 255. The keyword has this meaning: detail—(Optional) Display detailed ACL manager label information.
statistics <i>asic-number</i>	Display per-ASIC ACL manager information. The <i>asic-number</i> is the port ASIC number, either 0 or 1.
usage <i>asic-number</i> [summary]	Display per-ASIC ACL usage information. The keyword has this meaning: summary—(Optional) Display usage information in a brief format.
vlan <i>vlan-id</i>	Display per-VLAN ACL manager information. The <i>vlan-id</i> range is from 1 to 4094.
 begin	(Optional) Display begins with the line that matches the <i>expression</i> .
 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
 include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(46)EX	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform backup interface

Use the **show platform backup interface** privileged EXEC command to display platform-dependent backup information used in a Flex Links configuration.

```
show platform backup interface [interface-id | dummyQ] [ | { begin | exclude | include }  
                        expression]
```

Syntax Description	<i>interface-id</i>	(Optional) Display backup information for all interfaces or the specified interface. The interface can be a physical interface or a port channel.
	dummyQ	(Optional) Display dummy queue information.
	 begin	(Optional) Display begins with the line that matches the <i>expression</i> .
	 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	 include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines	You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so. Expressions are case sensitive. For example, if you enter exclude output, the lines that contain <i>output</i> do not appear, but the lines that contain <i>Output</i> appear.
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show platform etherchannel

Use the **show platform etherchannel** privileged EXEC command to display platform-dependent EtherChannel information.

show platform etherchannel {**flags** | **time-stamps**} [| {**begin** | **exclude** | **include**} *expression*]

Syntax Description

flags	Display EtherChannel port flags.
time-stamps	Display EtherChannel time stamps.
begin	(Optional) Display begins with the line that matches the <i>expression</i> .
exclude	(Optional) Display excludes lines that match the <i>expression</i> .
include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(46)EX	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform forward

Use the **show platform forward** privileged EXEC command for an interface to specify how the hardware would forward a frame that matches the specified parameters.

```
show platform forward interface-id [vlan vlan-id] src-mac dst-mac [l3protocol-id] [sap | snap]
[cos cos] [ip src-ip dst-ip [frag field] [dscp dscp] [l4protocol-id | icmp icmp-type icmp-code |
```

```
igmp igmp-version igmp-type | sctp src-port dst-port | tcp src-port dst-port flags | udp src-port
dst-port] [ | { begin | exclude | include } expression]
```

Syntax Description		
<i>interface-id</i>		The input physical interface, the port on which the packet comes in to the switch (including type and port number).
vlan <i>vlan-id</i>		(Optional) Input VLAN ID. The range is 1 to 4094. If not specified, and the input interface is not a routed port, the default is 1.
<i>src-mac</i>		48-bit source MAC address.
<i>dst-mac</i>		48-bit destination MAC address.
<i>l3protocol-id</i>		(Optional) The Layer 3 protocol used in the packet. The number is a value 0 to 65535.
sap		(Optional) Service access point (SAP) encapsulation type.
snap		(Optional) Subnetwork Access Protocol (SNAP) encapsulation type.
cos <i>cos</i>		(Optional) Class of service (CoS) value of the frame. The range is 0 to 7.
ip <i>src-ip</i> <i>dst-ip</i>		(Optional, but required for IP packets) Source and destination IP addresses in dotted decimal notation.
frag <i>field</i>		(Optional) The IP fragment field for a fragmented IP packet. The range is 0 to 65535.
dscp <i>dscp</i>		(Optional) Differentiated Services Code Point (DSCP) field in the IP header. The range is 0 to 63.
<i>l4protocol-id</i>		The numeric value of the Layer 4 protocol field in the IP header. The range is 0 to 255. For example, 47 is generic routing encapsulation (GRE), and 89 is Open Shortest Path First (OSPF). If the protocol is TCP, User Datagram Protocol (UDP), Internet Control Message Protocol (ICMP), or Internet Group Management Protocol (IGMP), you should use the appropriate keyword instead of a numeric value.
icmp <i>icmp-type</i> <i>icmp-code</i>		ICMP parameters. The <i>icmp-type</i> and <i>icmp-code</i> ranges are 0 to 255.
igmp <i>igmp-version</i> <i>igmp-type</i>		IGMP parameters. The <i>igmp-version</i> range is 1 to 15; the <i>igmp-type</i> range is 0 to 15.
sctp <i>src-port</i> <i>dst-port</i>		Stream Control Transmission Protocol (SCTP) parameters. The ranges for the SCTP source and destination ports are 0 to 65535.
tcp <i>src-port</i> <i>dst-port</i> <i>flags</i>		TCP parameters: TCP source port, destination port, and the numeric value of the TCP flags byte in the header. The <i>src-port</i> and <i>dst-port</i> ranges are 0 to 65535. The flag range is 0 to 1024.
udp <i>src-port</i> <i>dst-port</i>		UDP parameters. The <i>src-port</i> and <i>dst-port</i> ranges are 0 to 65535.
begin		(Optional) Display begins with the line that matches the <i>expression</i> .
exclude		(Optional) Display excludes lines that match the <i>expression</i> .

show platform forward

 include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(46)EX	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

Examples

For examples of the **show platform forward** command output displays and what they mean, see the “Troubleshooting” chapter of the software configuration guide for this release.

show platform frontend-controller

Use the **show platform frontend-controller** privileged EXEC command to display counter and status information for the front-end controller manager and subordinate applications and to display the hardware and software information for the front-end controller.

show platform frontend-controller { **buffer** | **generic** | **manager** *number* | **subordinate** *number* | **version** *number* } [| { **begin** | **exclude** | **include** } *expression*]

Syntax Description		
buffer		Display the last 1024 bytes sent from the manager to the subordinate and the reverse.
generic		Display the generic counters that do not specifically apply to the manager or subordinate.
manager <i>number</i>		Display the counters for the manager and the subordinate specified by <i>number</i> . See the “Usage Guidelines” section for the <i>number</i> range.
subordinate <i>number</i>		Display the subordinate status and the counters for the subordinate specified by <i>number</i> . See the “Usage Guidelines” section for the <i>number</i> range.
version <i>number</i>		Display the hardware and software version information for the subordinate status specified by <i>number</i> . See the “Usage Guidelines” section for the <i>number</i> range.
begin		(Optional) Display begins with the line that matches the <i>expression</i> .
exclude		(Optional) Display excludes lines that match the <i>expression</i> .
include		(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>		Expression in the output to use as a reference point.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines The subordinate number range is 0 to 2.

You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform ip igmp snooping

Use the **show platform ip igmp snooping** privileged EXEC command to display platform-dependent Internet Group Management Protocol (IGMP) snooping information.

```
show platform ip igmp snooping { all | control [di] | counters | flood [vlan vlan-id] | group
ip-address | hardware | retry [count | local [count] | remote [count]] } [ | { begin | exclude |
include } expression]
```

Syntax Description		
all		Display all IGMP snooping platform IP multicast information.
control [di]		Display IGMP snooping control entries. The keyword has this meaning: di—(Optional) Display IGMP snooping control destination index entries.
counters		Display IGMP snooping counters.
flood [vlan <i>vlan-id</i>]		Display IGMP snooping flood information. The keyword has this meaning: vlan <i>vlan-id</i>—(Optional) Display flood information for the specified VLAN. The range is 1 to 4094.
group <i>ip-address</i>		Display the IGMP snooping multicast group information, where <i>ip-address</i> is the IP address of the group.
hardware		Display IGMP snooping information loaded into hardware.
retry [count local [count]		Display IGMP snooping retry information. The keywords have these meanings: count—(Optional) Display only the retry count. local—(Optional) Display local retry entries.
remote [count]		Display remote entries. The keyword has this meaning: count—(Optional) Display only the remote count.
begin		(Optional) Display begins with the line that matches the <i>expression</i> .
exclude		(Optional) Display excludes lines that match the <i>expression</i> .
include		(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>		Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform layer4op

Use the **show platform layer4op** privileged EXEC command to display platform-dependent Layer 4 operator information.

```
show platform layer4op {acl | pacl [port-asic] | qos [port-asic]} {and-or | map | or-and | vcu} [
  | {begin | exclude | include} expression]
```

Syntax Description		
acl		Display access control list (ACL) Layer 4 operators information.
pacl [port-asic]		Display port ACL Layer 4 operators information. The keyword has this meaning: <i>port-asic</i>—(Optional) Port ASIC number.
qos [port-asic]		Display quality of service (QoS) Layer 4 operators information. The keyword has this meaning: <i>port-asic</i>—(Optional) QoS port ASIC number.
and-or		Display AND-OR registers information.
map		Display select map information.
or-and		Display OR-AND registers information.
vcu		Display value compare unit (VCU) register information.
 begin		(Optional) Display begins with the line that matches the <i>expression</i> .
 exclude		(Optional) Display excludes lines that match the <i>expression</i> .
 include		(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>		Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform mac-address-table

Use the **show platform mac-address-table** privileged EXEC command to display platform-dependent MAC address table information.

```
show platform mac-address-table [aging-array | hash-table | mac-address mac-address] [vlan vlan-id]] [ | { begin | exclude | include } expression]
```

Syntax Description	aging-array	(Optional) Display the MAC address table aging array.
	hash-table	(Optional) Display the MAC address table hash table.
	mac-address <i>mac-address</i>	(Optional) Display the MAC address table MAC address information, where <i>mac-address</i> is the 48-bit hardware address.
	vlan <i>vlan-id</i>	(Optional) Display information for the specified VLAN. The range is 1 to 4094.
	begin	(Optional) Display begins with the line that matches the <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines	You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.
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Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform messaging

Use the **show platform messaging** privileged EXEC command to display platform-dependent application and performance message information.

```
show platform messaging {application [incoming | outgoing | summary] | hiperf
                        [class-number]} [ | {begin | exclude | include} expression]
```

Syntax Description	application [incoming outgoing summary] Display application message information. The keywords have these meanings: incoming—(Optional) Display only information about incoming application messaging requests. outgoing—(Optional) Display only information about incoming application messaging requests. summary—(Optional) Display summary information about all application messaging requests. hiperf [class-number] Display outgoing high-performance message information. Specify the <i>class-number</i> option to display information about high-performance messages for this class number. The range is 0 to 36. begin (Optional) Display begins with the line that matches the <i>expression</i>. exclude (Optional) Display excludes lines that match the <i>expression</i>. include (Optional) Display includes lines that match the specified <i>expression</i>. <i>expression</i> Expression in the output to use as a reference point.
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Command Modes	Privileged EXEC
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Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>12.2(46)EX</td><td>This command was introduced.</td></tr> </table>	Release	Modification	12.2(46)EX	This command was introduced.
Release	Modification				
12.2(46)EX	This command was introduced.				

Usage Guidelines	You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so. Expressions are case sensitive. For example, if you enter exclude output, the lines that contain <i>output</i> do not appear, but the lines that contain <i>Output</i> appear.
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show platform monitor

Use the **show platform monitor** privileged EXEC command to display platform-dependent Switched Port Analyzer (SPAN) information.

show platform monitor [**session** *session-number*] [| { **begin** | **exclude** | **include** } *expression*]

Syntax Description

session <i>session-number</i>	(Optional) Display SPAN information for the specified SPAN session. The range is 1 to 66.
begin	(Optional) Display begins with the line that matches the <i>expression</i> .
exclude	(Optional) Display excludes lines that match the <i>expression</i> .
include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(46)EX	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter | **exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform mvr table

Use the **show platform mvr table** privileged EXEC command to display the platform-dependent Multicast VLAN Registration (MVR) multi-expansion descriptor (MED) group mapping table.

show platform mvr table [| { **begin** | **exclude** | **include** } *expression*]

Syntax Description	 begin	(Optional) Display begins with the line that matches the <i>expression</i> .
	 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	 include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines	You should use this command only when you are working directly with a technical support representative while troubleshooting a problem. Do not use this command unless a technical support representative asks you to do so.
	Expressions are case sensitive. For example, if you enter exclude output , the lines that contain <i>output</i> do not appear, but the lines that contain <i>Output</i> appear.

show platform pm

Use the **show platform pm** privileged EXEC command to display platform-dependent port-manager information.

```
show platform pm { counters | group-masks | idbs { active-idbs | deleted-idbs } | if-numbers |
link-status | platform-block | port-info interface-id | vlan { info | line-state }
[ | { begin | exclude | include } expression ]
```

Syntax Description	
counters	Display module counters information.
group-masks	Display EtherChannel group masks information.
idbs { active-idbs deleted-idbs }	Display interface data block (IDB) information. The keywords have these meanings: • active-idbs—Display active IDB information. • deleted-idbs—Display deleted and leaked IDB information.
if-numbers	Display interface numbers information.
link-status	Display local port link status information.
platform-block	Display platform port block information.
port-info interface-id	Display port administrative and operation fields for the specified interface.
stack-view	Display status information for the stack.
vlan { info line-state }	Display platform VLAN information. The keywords have these meanings: • info—Display information for active VLANs. • line-state—Display line-state information.
 begin	(Optional) Display begins with the line that matches the <i>expression</i> .
 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
 include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform port-asic

Use the **show platform port-asic** privileged EXEC command to display platform-dependent port ASIC register information.

```
show platform port-asic {cpu-queue-map-table [asic number | port number [asic number]] |
    dest-map index number |
    etherchannel-info [asic number | port number [asic number]] |
    exception [asic number | port number [asic number]] |
    global-status [asic number | port number [asic number]] |
    learning [asic number | port number [asic number]] |
    mac-info [asic number | port number [asic number]] |
    mvid [asic number] |
    packet-info-ram [asic number | index number [asic number]] |
    port-info [asic number | port number [asic number]] |
    prog-parser [asic number | port number [asic number]] |
    receive {buffer-queue | port-fifo | supervisor-sram} [asic number | port number [asic
    number]] |
    span [vlan-id [asic number] | [asic number]
    stats {drop | enqueue | miscellaneous | supervisor} [asic number | port number [asic
    number]] |
    transmit {port-fifo | queue | supervisor-sram} [asic number | port number [asic number]]
    vct [asic number | port number [asic number]]
    version}
[ | {begin | exclude | include} expression]
```

Syntax Description

cpu-queue-map-table [asic number port number [asic number]]	Display the CPU queue-map table entries. The keywords have these meanings: asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27.
dest-map index <i>number</i>	Display destination-map information for the specified index. The range is 0 to 65535.
etherchannel-info [asic number port number [asic number]]	Display the contents of the EtherChannel information register. The keywords have these meanings: asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.

exception [<i>asic number</i> port number [<i>asic number</i>]]	Display the exception-index register information. The keywords have these meanings: • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
global-status [<i>asic number</i> port number [<i>asic number</i>]]	Display global and interrupt status. The keywords have these meanings: • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
learning [<i>asic number</i> port number [<i>asic number</i>]]	Display entries in the learning cache. The keywords have these meanings: • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
mac-info [<i>asic number</i> port number [<i>asic number</i>]]	Display the contents of the MAC information register. The keywords have these meanings: • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
mvid [<i>asic number</i>]	Display the mapped VLAN ID table. The keyword has this meaning: • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1.
packet-info-ram [<i>asic number</i> index number [<i>asic number</i>]]	Display the packet information RAM. The keywords have these meanings: • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • index number—(Optional) Display information for the specified packet RAM index number and ASIC number. The range is 0 to 63.

port-info [<i>asic number</i> port number [<i>asic number</i>]]	Display port information register values. The keywords have these meanings: • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
prog-parser [<i>asic number</i> port number [<i>asic number</i>]]	Display the programmable parser tables. The keywords have these meanings: • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
receive { buffer-queue port-fifo supervisor-sram } [<i>asic number</i> port number [<i>asic number</i>]]	Display receive information. The keywords have these meanings: • buffer-queue—Display the buffer queue information. • port-fifo—Display the port-FIFO information. • supervisor-sram—Display the supervisor static RAM (SRAM) information. • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
span [<i>vlan-id</i> <i>asic number</i>]	Display the Switched Port Analyzer (SPAN)-related information. The keywords have these meanings: • <i>vlan-id</i>—(Optional) Display information for the specified VLAN. The range is 0 to 1023. • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1.

stack { control dest-map learning messages mvid prog-parser span stats [asic number port number [asic number]]	Display stack-related information. The keywords have these meanings: • control—Display stack control-status register information. • dest-map—Display destination-map information. • learning—Display entries in the learning-cache. • messages—Display the stack-message register information. • mvid—Display entries in the mapped VLAN-ID table. • prog-parser—Display the programmable parser tables. • span—Display SPAN-related information. • stats—Display raw statistics for the port ASIC. • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
stats { drop enqueue miscellaneous supervisor } [asic number port number [asic number]]	Display raw statistics for the port ASIC. The keywords have these meanings: • drop—Display drop statistics. • enqueue—Display enqueue statistics. • miscellaneous—Display miscellaneous statistics. • supervisor—Display supervisor statistics. • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
transmit { port-fifo queue supervisor-sram } [asic number port number [asic number]]	Display transmit information. The keywords have these meanings: • port-fifo—Display the contents of the port-FIFO information register. • queue—Display the contents of the queue information register. • supervisor-sram—Display supervisor SRAM information. • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.

vct [<i>asic number</i> <i>port number</i> [<i>asic number</i>]]	Display the VLAN compression table entries for the specified ASIC or for the specified port and ASIC. The keywords have these meanings: • asic number—(Optional) Display information for the specified ASIC. The range is 0 to 1. • port number—(Optional) Display information for the specified port and ASIC number. The range is 0 to 27, where 0 is the supervisor and 1 to 25 are the ports.
version	Display version and device type information for port ASICs.
 begin	(Optional) Display begins with the line that matches the <i>expression</i> .
 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
 include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(46)EX	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform port-security

Use the **show platform port-security** privileged EXEC command to display platform-dependent port-security information.

show platform port-security [**|** { **begin** | **exclude** | **include** } *expression*]

Syntax Description	 begin	(Optional) Display begins with the line that matches the <i>expression</i> .
	 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	 include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines	You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so. Expressions are case sensitive. For example, if you enter exclude output, the lines that contain <i>output</i> do not appear, but the lines that contain <i>Output</i> appear.
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show platform qos

Use the **show platform qos** privileged EXEC command to display platform-dependent quality of service (QoS) information.

```
show platform qos {label asic number | policer {parameters asic number |
port alloc number asic number}} [ | {begin | exclude | include} expression]
```

Syntax Description	label asic number	Display QoS label maps for the specified ASIC. (Optional) For asic number , the range is 0 to 1.
	policer {parameters asic number port alloc number asic number}	Display policer information. The keywords have these meanings: • parameters asic number—Display parameter information for the specified ASIC. The range is 0 to 1. • port alloc number asic number—Display port allocation information for the specified port and ASIC. The port allocation range is 0 to 25. The ASIC range is 0 to 1.
	 begin	(Optional) Display begins with the line that matches the <i>expression</i> .
	 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	 include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform resource-manager

Use the **show platform resource-manager** privileged EXEC command to display platform-dependent resource-manager information.

```
show platform resource-manager { dm [index number] | erd [index number] |
mad [index number] | med [index number] | mod | msm { hash-table [vlan vlan-id] |
mac-address mac-address [vlan vlan-id]} | sd [index number] |
vld [index number]} [ | {begin | exclude | include} expression]
```

Syntax Description	
dm [index number]	Display the destination map. The keyword has this meaning: index number—(Optional) Display the specified index. The range is 0 to 65535.
erd [index number]	Display the equal-cost-route descriptor table for the specified index. The keyword has this meaning: index number—(Optional) Display the specified index. The range is 0 to 65535.
mad [index number]	Display the MAC-address descriptor table for the specified index. The keyword has this meaning: index number—(Optional) Display the specified index. The range is 0 to 65535.
med [index number]	Display the multi-expansion descriptor table for the specified index. The keyword has this meaning: index number—(Optional) Display the specified index. The range is 0 to 65535.
mod	Display the resource-manager module information.
msm { hash-table [vlan vlan-id] mac-address mac-address [vlan vlan-id]}	Display the MAC-address descriptor table and the station descriptor table information. The keywords have these meanings: hash-table [vlan vlan-id]—Display the hash table for all VLANs or the specified VLAN. The range is 1 to 4094. mac-address mac-address [vlan vlan-id]—Display the MAC-address descriptor table for the specified MAC address represented by the 48-bit hardware address for all VLANs or the specified VLAN. The range is 1 to 4094.
sd [index number]	Display the station descriptor table for the specified index. The keyword has this meaning: index number—(Optional) Display the specified index. The range is 0 to 65535.
vld [index number]	Display the VLAN-list descriptor table for the specified index. The keyword has this meaning: index number—(Optional) Display the specified index. The range is 0 to 65535.
begin	(Optional) Display begins with the line that matches the <i>expression</i> .
exclude	(Optional) Display excludes lines that match the <i>expression</i> .

■ show platform resource-manager

 include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform snmp counters

Use the **show platform snmp counters** privileged EXEC command to display platform-dependent Simple Network Management Protocol (SNMP) counter information.

show platform snmp counters [| { **begin** | **exclude** | **include** } *expression*]

Syntax Description	begin	(Optional) Display begins with the line that matches the <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines	You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so. Expressions are case sensitive. For example, if you enter exclude output, the lines that contain <i>output</i> do not appear, but the lines that contain <i>Output</i> appear.
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show platform spanning-tree

Use the **show platform spanning-tree** privileged EXEC command to display platform-dependent spanning-tree information.

show platform spanning-tree synchronization [**detail** | **vlan** *vlan-id*] [| { **begin** | **exclude** | **include** } *expression*]

Syntax Description		
synchronization	Display spanning-tree state synchronization information. The keywords have these meanings:	
[detail vlan <i>vlan-id</i>]		• detail—(Optional) Display detailed spanning-tree information. • vlan <i>vlan-id</i>—(Optional) Display VLAN switch spanning-tree information for the specified VLAN. The range is 1 to 4094.
begin	(Optional) Display begins with the line that matches the <i>expression</i> .	
exclude	(Optional) Display excludes lines that match the <i>expression</i> .	
include	(Optional) Display includes lines that match the specified <i>expression</i> .	
<i>expression</i>	Expression in the output to use as a reference point.	

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines	You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so. Expressions are case sensitive. For example, if you enter exclude output, the lines that contain <i>output</i> do not appear, but the lines that contain <i>Output</i> appear.
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show platform stp-instance

Use the **show platform stp-instance** privileged EXEC command to display platform-dependent spanning-tree instance information.

show platform stp-instance *vlan-id* [| { **begin** | **exclude** | **include** } *expression*]

Syntax Description	<i>vlan-id</i>	Display spanning-tree instance information for the specified VLAN. The range is 1 to 4094.
	begin	(Optional) Display begins with the line that matches the <i>expression</i> .
	exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines	You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so. Expressions are case sensitive. For example, if you enter exclude output, the lines that contain <i>output</i> do not appear, but the lines that contain <i>Output</i> appear.
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show platform stack manager

Use the **show platform stack manager** privileged EXEC command to display platform-dependent stack information.

```
show platform stack manager {all | counters | trace [sdp [reverse] | state [reverse]]}
[ | {begin | exclude | include} expression]
```

Syntax Description		
all		Display all information for the entire switch stack.
counters		Display the stack manager counters.
trace [sdp [reverse]]		Display trace information. The keywords have these meanings: • sdp—(Optional) Display Stack Discovery Protocol (SDP) information. • reverse—(Optional) Display trace information in reverse chronological order (from recent to older chronological sequence).
trace [state [reverse]]		Display trace information. The keywords have these meanings: • state—(Optional) Display stack state machine information. • reverse—(Optional) Display trace information in reverse chronological order (from recent to older chronological sequence).
 begin		(Optional) Display begins with the line that matches the <i>expression</i> .
 exclude		(Optional) Display excludes lines that match the <i>expression</i> .
 include		(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>		Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.
	12.2(50)SE	The command syntax changed from show platform stack-manager to show platform stack manager .

Usage Guidelines

Use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

The summary information about the switch stack shows these states:

- **Waiting**—A switch is booting up and waiting for communication from other switches in the stack. The switch has not yet determined whether or not it is a stack master.
Stack members not participating in a stack master election remain in the waiting state until the stack master is elected and ready.
- **Initializing**—A switch has determined whether its stack master status. If it is not the stack master, it is receiving its system- and interface-level configuration from the stack master and loading it.
- **Ready**—The member has completed loading the system- and interface-level configurations and can forward traffic.
- **Master Re-Init**—The state immediately after a master re-election and a different member is elected master. The new master is re-initializing its configuration. This state applies only to the new master.
- **Ver Mismatch**—A switch in version mismatch mode. Version-mismatch mode is when a switch joining the stack has a different stack protocol minor version number than the master.

A typical state transition for a stack member (including a stack master) booting up is Waiting -> Initializing -> Ready.

A typical state transition for a stack member to a stack master after an master election is Ready -> Master Re-Init -> Ready.

A typical state transition for a stack member in version mismatch mode is Waiting -> Ver Mismatch.

show platform stack ports

Use the **show platform stack ports** privileged EXEC command to display platform-dependent stack information.

show platform stack ports {**buffer** | **history**}[| {**begin** | **exclude** | **include**} *expression*]

Syntax Description		
buffer		Display the stack port link and sync state events.
history		Display the stack port history.
begin		(Optional) Display begins with the line that matches the <i>expression</i> .
exclude		(Optional) Display excludes lines that match the <i>expression</i> .
include		(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>		Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(50)SE	This command was introduced.

Usage Guidelines

Use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

Examples

This is an example of the **show platform stack port buffer** command output:

```
Switch# show platform stack ports buffer
      Stack Debug Event Data Trace
=====
Event type LINK: Link status change
Event type RAC: RAC changes to Not OK
Event type SYNC: Sync changes to Not OK
=====

  Event   Stack   Stack PCS Info           Ctrl-Status  Loopback  Cable
  Count   Port                                     IOS / HW    length
=====
Event type: LINK OK Stack Port 1
0000000011  1  FF08FF00 860302A5 AA55FFFF FFFFFFFF  1CE61CE6    Yes/Yes  No cable
0000000011  2  FF08FF00 86031805 55AAFFFF FFFFFFFF  1CE61CE6    Yes/Yes  No cable
Event type: LINK OK Stack Port 2
0000000012  1  FF08FF00 860302A5 AA55FFFF FFFFFFFF  1CE61CE6    Yes/Yes  No cable
0000000012  2  FF08FF00 86031805 55AAFFFF FFFFFFFF  1CE61CE6    Yes/Yes  No cable
Event type: RAC
0000000013  1  FF08FF00 860302A5 AA55FFFF FFFFFFFF  1CE61CE6    Yes/Yes  No cable
```

```
0000000013    2    FF08FF00 86031805 55AAFFFF FFFFFFFF    1CE61CE6    Yes/Yes    No cable
```

This is an example of **show platform stack ports history** command output:

```
Switch# show platform stack ports history
Switch#/  Lost Sync  # times Link  # Changes
Port#     Events    Not OK       To LinkOK
-----
1/1       0          0            0
1/2       3          4            3
2/1       3          4            3
2/2       0          0            0
3/1       0          0            0
3/2       0          0            0
```

show platform tb

Use the **show platform tb** privileged EXEC command to display platform-dependent trusted-boundary information during a stack master change to a new stack master.

show platform tb [**| {begin | exclude | include}** *expression*]

Syntax Description	 begin	(Optional) Display begins with the line that matches the <i>expression</i> .
	 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
	 include	(Optional) Display includes lines that match the specified <i>expression</i> .
	<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines	You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.
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Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

Examples	This is an example of output from the show platform tb command:
----------	--

```
Switch# show platform tb
Print TB sub-block information
(Fa1/0/2) device: (Cisco phone)
/* current interfaces with TB enabled, and the trust device type */

Current master switch: (Yes)
/* Is this switch the current master switch? */

New elected master      : (No)
/* Is the master switch-over occurred and this is the new master switch? */

Master ready           : (No)
/* Is the Master switch in ready state? */

HULC TB process on     : (No)
/* Is the TB platform process currently running? */

CDP stable timer ON    : (No) (360 secs)
/* Is the CDP stable timer running? After the CDP stable timer expired, CDP neighbors of
all the TB enabled interfaces will be verified to make sure the replacement of IP phone
and PC did not happen during the master switch-over. */
```

```
Print TB residue trust ports information
/* The interfaces with TB enabled right before master switch-over. */

Print port CDP neighbor information
/* Is the CDP message still received after switch-over? */

HULC TB is not detecting CDP events
/* Currently, this switch is not detecting any CDP event. */
```

show platform tcam

Use the **show platform tcam** privileged EXEC command to display platform-dependent ternary content addressable memory (TCAM) driver information.

```
show platform tcam {handle number | log-results | table {acl | all | local | mac-address | qos |
station | vlan-list} | usage} [asic number [detail [invalid]] | [index number [detail [invalid]]
| invalid] | num number [detail [invalid]] | invalid] | [invalid] | [num number [detail [invalid]]
| invalid]] [ | {begin | exclude | include} expression]
```

```
show platform tcam table acl [asic number [detail [invalid]] | [index number [detail [invalid]] |
invalid] | num number [detail [invalid]] | invalid] | [invalid] | [num number [detail [invalid]]
| invalid]] [ | {begin | exclude | include} expression]
```

```
show platform tcam table all [asic number [detail [invalid]] | [index number [detail [invalid]] |
invalid] | num number [detail [invalid]] | invalid] | [invalid] | [num number [detail [invalid]]
| invalid]] [ | {begin | exclude | include} expression]
```

```
show platform tcam table local [asic number [detail [invalid]] | [index number [detail [invalid]]
| invalid] | num number [detail [invalid]] | invalid] | [invalid] | [num number [detail [invalid]]
| invalid]] [ | {begin | exclude | include} expression]
```

```
show platform tcam table mac-address [asic number [detail [invalid]] | [index number [detail
[invalid]] | invalid] | num number [detail [invalid]] | invalid] | [invalid] | [num number [detail
[invalid]] | invalid]] [ | {begin | exclude | include} expression]
```

```
show platform tcam table qos [asic number [detail [invalid]] | [index number [detail [invalid]] |
invalid] | num number [detail [invalid]] | invalid] | [invalid] | [num number [detail [invalid]]
| invalid]] [ | {begin | exclude | include} expression]
```

```
show platform tcam table station [asic number [detail [invalid]] | [index number [detail
[invalid]] | invalid] | num number [detail [invalid]] | invalid] | [invalid] | [num number [detail
[invalid]] | invalid]] [ | {begin | exclude | include} expression]
```

```
show platform tcam table vlan-list [ [asic number [detail [invalid]] | [index number [detail
[invalid]] | invalid] | num number [detail [invalid]] | invalid] | [invalid] | [num number [detail
[invalid]] | invalid]] [ | {begin | exclude | include} expression]
```

Syntax Description	
handle <i>number</i>	Display the TCAM handle. The range is 0 to 4294967295.
log-results	Display the TCAM log results.
table {acl all local mac-address qos station vlan-list}	Display lookup and forwarding table information. The keywords have these meanings: acl—Display the access-control list (ACL) table. all—Display all the TCAM tables. local—Display the local table. mac-address—Display the MAC-address table. qos—Display the QoS table. station—Display the station table. vlan-list—Display the VLAN list table.

usage	Display the CAM and forwarding table usage.
[[asic <i>number</i> [detail [invalid]] [index <i>number</i> [detail [invalid]] invalid num <i>number</i> [detail [invalid]] invalid [invalid]] [num <i>number</i> [detail [invalid]] invalid]]	Display information. The keywords have these meanings: • asic <i>number</i>—Display information for the specified ASIC device ID. The range is 0 to 15. • detail [invalid]—(Optional) Display valid or invalid details. • index <i>number</i>—(Optional) Display information for the specified TCAM table index. The range is 0 to 32768. • num <i>number</i>—(Optional) Display information for the specified TCAM table number. The range is 0 to 32768.
 begin	(Optional) Display begins with the line that matches the <i>expression</i> .
 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
 include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

**Note**

Though visible in the command-line help strings, the **ipv6**, **equal-cost-route**, **multicast-expansion**, **secondary**, and **usage** keywords are not supported.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(46)EX	This command was introduced.

Usage Guidelines

You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform vlan

Use the **show platform vlan** privileged EXEC command to display platform-dependent VLAN information.

```
show platform vlan {misc | mvid | prune | refcount | rpc {receive | transmit}} [ | {begin | exclude | include} expression]
```

Syntax Description	
misc	Display miscellaneous VLAN module information.
mvid	Display the mapped VLAN ID (MVID) allocation information.
prune	Display the stack pruning database.
refcount	Display the VLAN lock module-wise reference counts.
rpc {receive transmit}	Display remote procedure call (RPC) messages. The keywords have these meanings: receive—Display received information. transmit—Display sent information.
 begin	(Optional) Display begins with the line that matches the <i>expression</i> .
 exclude	(Optional) Display excludes lines that match the <i>expression</i> .
 include	(Optional) Display includes lines that match the specified <i>expression</i> .
<i>expression</i>	Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(46)EX	This command was introduced.

Usage Guidelines You should use this command only when you are working directly with your technical support representative while troubleshooting a problem. Do not use this command unless your technical support representative asks you to do so.

Expressions are case sensitive. For example, if you enter **| exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.