



APPENDIX **C**

Cisco Catalyst Switch Module 3110 and 3012 for IBM BladeCenter Show Platform Commands

This appendix describes the **show platform** privileged EXEC commands that have been created or changed for use with the 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(40)EX2	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(40)EX2	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 chassis

Use the **show platform chassis** user EXEC command to display information about the Advanced Management Module (AMM).

```
show platform chassis {manager {registers | version chassis-controller | vpd length address} |
summary} [ | {begin | exclude | include} expression]
```

Syntax Description		
manager		Display information about the switch module chassis controller.
registers		Display the values of the chassis controller registers.
version chassis-controller		Display the chassis controller version.
vpd length address		Display Vital Product Data (VPD) by specifying the length (<i>length</i>) of the hexadecimal address of the VPD EEPROM and the hexadecimal address (<i>address</i>). The range for <i>length</i> and <i>address</i> is from 0 to C00.
summary		Display a summary of the chassis controller 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> .
expression		Expression in the output to use as a reference point.

Command Modes	User EXEC
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Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

Usage Guidelines	The show platform chassis command works only on the stack member on which it is entered. To display information about a specific stack member, enter the session <i>stack-member-number</i> privileged EXEC command, and then enter the show platform chassis command. 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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Examples

This is an example of output from the **show platform chassis manager version chassis-controller** command:

```
Switch> show platform chassis manager version chassis-controller
version = V212
```

This is an example of output from the **show platform chassis summary** command:

```
Switch> show platform chassis summary
Platform Chassis Summary

Switch Slot ID      : 4
Chassis Type       : BladeCenter BC-E
Chassis ID         : BEEF 1234 5678 9900 6969 6969 0123 DEAD

Active MM in Slot   : 1
MM Prot Mode Support : Yes
MM Prot Mode Status : Not Operational
MM Prot Mode Config : No
Ext Mgmt / Ext Ports : Enabled

IP Acquisition      : Default

Current   IP Addr   : 10.10.10.94
Current   IP Mask    : 255.255.255.0
Current   Gateway    : 0.0.0.0

VPD Switch IP Addr  : 0.0.0.0
VPD Switch IP Mask  : 0.0.0.0
VPD Switch Gateway  : 0.0.0.0

VPD Static IP Addr  : 255.255.255.255
VPD Static IP Mask  : 255.255.255.255
VPD Static Gateway  : 255.255.255.255
```

Related Commands

Command	Description
platform chassis-management	Enables the protected-mode feature on the switch.

show platform configuration

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

```
show platform configuration {config-output | default | running | startup} [ | {begin | exclude |
include} expression]
```

Syntax Description

config-output	Display the output of the last auto-configuration application.
default	Display whether or not the system is running the default configuration.
running	Display a snapshot of the backed-up running configuration on the local switch.
startup	Display a snapshot of the backed-up startup configuration on the local switch.
 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(40)EX2	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 dl

Use the **show platform dl** privileged EXEC command to display dynamically loaded module information.

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

Syntax Description	detail	(Optional) Display detailed dynamically loaded module 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(40)EX2	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(40)EX2	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] [ipv6 | 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, stack member, module, 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.
ipv6	(Optional) IPv6 frame. This keyword is supported only if the Catalyst Switch Module 3110 or switch stack is running the IP services feature set.
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.

■ show platform forward

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(40)EX2	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*]

This command is supported only on the Catalyst Switch Module 3110.

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(40)EX2	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 vlan-id]		Display IGMP snooping flood information. The keyword has this meaning: vlan vlan-id—(Optional) Display flood information for the specified VLAN. The range is 1 to 4094.
group ip-address		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] remote [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> .
expression		Expression in the output to use as a reference point.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(40)EX2	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 ip multicast

Use the **show platform ip multicast** privileged EXEC command to display platform-dependent IP multicast tables and other information.

show platform ip multicast { **acl-full-info** | **counters** | **groups** | **hardware** [**detail**] | **interfaces** | **locks** | **mdfs-routes** | **mroute-retry** | **retry** | **trace** } [| { **begin** | **exclude** | **include** } *expression*]

Syntax Description

acl-full-info	Display IP multicast routing access-control list (ACL) information, in particular the number of outgoing VLANs for which router ACLs at the output cannot be applied in hardware.
counters	Display IP multicast counters and statistics.
groups	Display IP multicast routes per group.
hardware [detail]	Display IP multicast routes loaded into hardware. The optional detail keyword is used to show port members in the destination index and route index.
interfaces	Display IP multicast interfaces.
locks	Display IP multicast destination-index locks.
mdfs-routes	Display multicast distributed fast switching (MDFS) IP multicast routes.
mroute-retry	Display the IP multicast route retry queue.
retry	Display the IP multicast routes in the retry queue.
trace	Display the IP multicast trace buffer.
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(40)EX2	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 ip unicast

Use the **show platform ip unicast** privileged EXEC command to display platform-dependent IP unicast routing information.

```
show platform ip unicast {adjacency | cef-idb | counts | dhcp | failed {adjacency | arp [A.B.C.D]
| route} | loadbalance | mpaths | proxy | route | rpf {A.B.C.D {A.B.C.D} | stats interface-id}
standby | statistics | table | trace} [ | {begin | exclude | include} expression]
```

Syntax Description	
adjacency	Display the platform adjacency database.
cef-idb	Display platform information corresponding to Cisco Express Forwarding (CEF) interface descriptor block.
counts	Display the current counts for the Layer 3 unicast databases.
dhcp	Display the DHCP system dynamic addresses.
failed {adjacency arp [A.B.C.D] route}	Display the hardware resource failures. The keywords have these meanings: adjacency—Display the adjacency entries that failed to be programmed in hardware. arp—Display the Address Resolution Protocol (ARP) deletions because of failure and because of retries. A.B.C.D—(Optional) Prefix of the ARP entries to display. route—Display the route entries that failed to be programmed in hardware.
loadbalance	Display the platform load-balance database.
mpaths	Display the Layer 3 unicast routing multipath adjacency database.
proxy	Display the platform proxy ARP database.
route	Display the platform route database.
rpf {A.B.C.D {A.B.C.D} stats interface-id}	Display the unicast reverse path forwarding (unicast RPF) platform information. The keywords have these meanings: A.B.C.D {A.B.C.D}—Prefix and prefix mask of the RPF entries to display. stats—Display the unicast RPF statistics for the specified interface. These keywords are supported only on the Catalyst Switch Module 3110.
standby	Display the platform standby information.
statistics	Display the Layer 3 unicast routing accumulated statistics.
table	Display the platform IP version 4 (IPv4) information.
trace	Display the platform event trace logs.
 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.

show platform ip unicast



Note

Though visible in the command-line help strings, the **proxy** and **table** keywords are not supported.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(40)EX2	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 **l exclude output**, the lines that contain *output* do not appear, but the lines that contain *Output* appear.

show platform ip unicast vrf compaction

Use the **show platform ip unicast vrf compaction** privileged EXEC command to display the compaction request queues and compaction status.

show platform ip unicast vrf compaction [**|** { **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(40)EX2	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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show platform ip unicast vrf tcam-label

Use the **show platform ip unicast vrf tcam-label** privileged EXEC command to display PBR and VRF-Lite labels and the number of labels in use by PBR.

show platform ip unicast vrf tcam-label [**| {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(40)EX2	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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show platform ip wccp

Use the **show platform ip wccp** privileged EXEC command to display platform-dependent Web Cache Communication Protocol (WCCP) information.

show platform ip wccp {**detail** | **label**} [**|** {**begin** | **exclude** | **include**} *expression*]

This command is supported only if your Catalyst Switch Module 3110 is running the IP services feature set.

Syntax Description

detail	Display the platform WCCP details.
label	Display the platform WCCP labels.
 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(40)EX2	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 ipc trace

Use the **show platform ipc trace** privileged EXEC command to display platform-dependent Interprocess Communication (IPC) Protocol trace log information.

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



Note

This command is supported only on the Catalyst Switch Module 3110.

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

Command History

Release	Modification
12.2(40)EX2	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 ipv6 unicast

Use the **show platform ipv6 unicast** privileged EXEC command to display platform-dependent IPv6 unicast routing information.

```
show platform ipv6 unicast {adjacency [ipv6-prefix] | backwalk {adjacency | loadbalance} |
compress ipv6-prefix/prefix length | interface | loadbalance | mpath | retry {adjacency |
route} | route [ipv6-prefix/prefix length | tcam] [detail] | statistics | table [detail] | trace}
[| {begin | exclude | include} expression]
```

Syntax Description		
adjacency		Display IPv6 adjacency information for the switch or for the specified IPv6 network.
<i>ipv6-prefix</i>		(Optional) The IPv6 network to be displayed. This argument must be in the form documented in RFC 2373 where the address is specified in hexadecimal using 16-bit values between colons.
backwalk {adjacency loadbalance}		Display IPv6 backwalk information. adjacency—Display adjacency backwalk information. loadbalance—Display backwalk load-balance information.
compress <i>ipv6-prefix/prefix length</i>		Display IPv6 prefix compression information. <i>ipv6-prefix</i>—The IPv6 network. <i>/prefix length</i>—The length of the IPv6 network prefix. A decimal value from 0 to 128 that shows how many of the high-order contiguous bits of the address comprise the prefix (the network portion of the address). A slash mark must precede the decimal value.
interface		Display IPv6 interface information.
loadbalance		Display IPv6 load-balance information
mpath		Display IPv6 multipath information
retry {adjacency route}		Display IPv6 retry information. adjacency—Display IPv6 adjacency retry information. route—Display IPv6 route retry information.
route		Display IPv6 route information.
tcam		(Optional) Display the IPv6 hardware route table information.
detail		(Optional) Display detailed IPv6 route information.
statistics		Display IPv6 accumulated statistics.
table		Display IPv6 unicast table information.
trace		Display IPv6 unicast traces.
 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

 show platform ipv6 unicast**Command History**

Release	Modification
12.2(40)EX2	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 **l 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(40)EX2	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

Command History	Release	Modification
	12.2(40)EX2	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 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 [<i>class-number</i>]	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.

Command Modes	Privileged EXEC
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Command History	Release	Modification
	12.2(40)EX2	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 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(40)EX2	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(40)EX2	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 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 | stack-view | 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. This keyword is supported only on the Catalyst Switch Module 3110.
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.



Note

Though visible in the command-line help strings, the **stack-view** keyword is not supported on the Catalyst Switch Module 3012.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(40)EX2	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]
  stack {control | dest-map | learning | messages | mvid | prog-parser | span | stats [asic
  number | port 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. This keyword is supported only on the Catalyst Switch Module 3110.
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> port <i>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.

**Note**

Though visible in the command-line help strings, the **stack** { **control** | **dest-map** | **learning** | **messages** | **mvid** | **prog-parser** | **span** | **stats** [*asic number* | **port** *number* [*asic number*]] keywords are not supported on the Catalyst Switch Module 3012.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(40)EX2	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(40)EX2	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(40)EX2	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(40)EX2	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(40)EX2	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(40)EX2	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(40)EX2	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 switch-stack information.

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



Note

This command is supported only on the Catalyst Switch Module 3110.

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

Command History

Release	Modification
12.2(40)EX2	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 (VM) 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**]



Note

This command is supported only on the Catalyst Switch Module 3110.

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

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 55AFFFFFF FFFFFFFF 1CE61CE6 Yes/Yes No cable
Event type: RAC
0000000013 1 FF08FF00 860302A5 AA55FFFF FFFFFFFF 1CE61CE6 Yes/Yes No cable
0000000013 2 FF08FF00 86031805 55AFFFFFF 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#/ Port# Lost Sync Events # times Link Not OK # Changes 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 summary

Use the **show platform summary** user EXEC command to display information about how the Advanced Management Module (AMM) controls the switch.

show platform summary [**| {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	User EXEC
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Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

Usage Guidelines	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.
------------------	--

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

```
Switch> show platform summary
Platform Summary:
Switch Slot: 2
Chassis Type: BladeCenter
Current IP Addr: 10.10.139.221, 255.255.255.224, gw: 10.10.139.193
Default IP Addr: 10.10.10.92, 255.255.255.0, gw: 0.0.0.0
IP Fields read from VPD: 10.10.139.221, 255.255.255.224, gw: 10.10.139.193
Static IP Fields in VPD: 10.10.139.221 255.255.255.224 10.10.139.193
IP Acquisition Method used: static

Active Mgmt Module in Mgmt Slot: 1
Native Vlan for Mgmt Module Ethernet ports: 1
External Mgmt over Extern ports Disabled
Mgmt Module Protected Mode: Not operational
Mgmt Module Protected Mode configured on switch: FALSE
Mgmt Module enabled Protected Mode: FALSE
ESM_SFP_3_#
```

Related Commands	Command	Description
	platform chassis-management	Enables the protected-mode feature on the switch.

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*]



Note

This command is supported only on the Catalyst Switch Module 3110.

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

Command History

Release	Modification
12.2(40)EX2	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.

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 hardware memory driver information.

```
show platform tcam {handle number | log-results | table {acl | all | equal-cost-route | ipv6 {acl | qos | secondary} | local | mac-address | multicast-expansion | qos | secondary | 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 equal-cost-route [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 ipv6 {acl | qos | secondary} [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 multicast-expansion [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 secondary [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 hardware memory handle. The range is 0 to 4294967295.
	log-results	Display the hardware memory log results.
	table { acl all equal-cost-route ipv6 { acl qos secondary } local mac-address multicast-expansion qos secondary 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 hardware memory tables. • equal-cost-route—Display the equal-cost-route table. • ipv6—Display IPv6 information. – acl—Display the IPv6 ACL-table information. – qos—Display the IPv6 QoS-table information. – secondary—Display the IPv6 secondary-table information. • local—Display the local table. • mac-address—Display the MAC-address table. • multicast-expansion—Display the IPv6 multicast-expansion table. • qos—Display the QoS table. • secondary—Display the secondary 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]] [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 hardware memory table index. The range is 0 to 32768. • num <i>number</i>—(Optional) Display information for the specified hardware memory 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 **usage** keyword is not supported.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX2	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 **l 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 on stacking-capable switches. Display the platform-maintained pruning database on nonstacking-capable switches.
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

Command History

Release	Modification
12.2(40)EX2	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.