show test

To display the errors reported from the diagnostic tests, the diagnostic level, and the action that the supervisor engine takes after a diagnostics test failure, use the **show test** command.

show test [*mod* | **all**]

show test diaglevel

show test diagfail-action

Syntax Description

	(Optional) Number of the module. If you do not specify a number, test statistics are given for the general system as well as for the supervisor engine.
	(Optional) Displays errors from diagnostic tests for all modules.
	Displays the diagnostic level.
	Displays the action that the supervisor engine takes after a diagnostics test failure.

Defaults

Command Types

Switch command.

Command Modes

Normal.

Usage Guidelines

Only error conditions are displayed. If there are no errors, PASS is displayed in the Line Card Status field.

Examples

This example shows the error display for module 2:

```
Console> show test 2

Module 2 : 2-port 1000BaseX Supervisor
Network Management Processor (NMP) Status: (. = Pass, F = Fail, U = Unknown)
  ROM:  .   Flash-EEPROM: .   Ser-EEPROM: .   NVRAM: .   EOBC Comm: .

Line Card Firmware Status for Module 2 : PASS

Port Status :
  Ports 1  2
  -----------
        .  .

Line Card Diag Status for Module 2  (. = Pass, F = Fail, N = N/A)

 Module 2
  Cafe II Status :
        NewLearnTest:             .
        IndexLearnTest:           .
```

```
 Loopback Status [Reported by Module 2] :
  Ports 1  2
  -----------
        .  .

 Channel Status :
  Ports 1  2
  -----------
        .  .
```

This example shows the error display for module 3:

```
Console> show test 3

Module 3 : 12-port 1000BaseX Ethernet

Line Card Firmware Status for Module 3 : PASS

Port Status :
  Ports 1  2  3  4  5  6  7  8  9  10 11 12
  ---------------------------------------
        .  .  .  .  .  .  .  .  .  .  .  .
Line Card Diag Status for Module 3  (. = Pass, F = Fail, N = N/A)
 Loopback Status [Reported by Module 3] :
  Ports 1  2  3  4  5  6  7  8  9  10 11 12
  ---------------------------------------
        .  .  .  .  .  .  .  .  .  .  .  .

 Channel Status :
  Ports 1  2  3  4  5  6  7  8  9  10 11 12
  ---------------------------------------
        .  .  .  .  .  .  .  .  .  .  .  .



Console>

Module 3 : 12-port 1000BaseX Ethernet

Line Card Firmware Status for Module 3 : FAIL
 Error                                                        Device Number
 -----------------------------------------------------------  ------------------------
 Port asic error                                              1,2,5,12
 CPU error                                                    0
Line Card Diag Status for Module 3  (. = Pass, F = Fail, N = N/A)
 Loopback Status [Reported by Module 1] :
  Ports 1  2  3  4  5  6  7  8  9  10 11 12
  ---------------------------------------
        .  .  .  .  .  .  .  .  .  .  .  .

 Channel Status :
  Ports 1  2  3  4  5  6  7  8  9  10 11 12
  ---------------------------------------
        .  .  .  .  .  .  .  .  .  .  .  .
```

```
Console>

Environmental Status (. = Pass, F = Fail, U = Unknown, N = Not Present)
  PS1:.     PS2:N     PS1 Fan:.     PS2 Fan:N
  Chassis-Ser-EEPROM:.     Fan:.
  Clock(A/B):A         Clock A:.     Clock B:.
  VTT1:.    VTT2:.    VTT3:.

Module 1 :2-port 1000BaseX Supervisor
Network Management Processor (NMP) Status:(. = Pass, F = Fail, U =
Unknown)
  ROM: .   Flash-EEPROM:.   Ser-EEPROM:.   NVRAM:.   EOBC Comm:.

Line Card Firmware Status for Module 1 :PASS

Port Status :
  Ports 1  2
  -----------
        .  .

Line Card Diag Status for Module 1  (. = Pass, F = Fail, N = N/A)

Module 1
  Earl IV Status :
        NewLearnTest:            .
        IndexLearnTest:          .
        DontForwardTest:         .
        DontLearnTest:           .
        ConditionalLearnTest:    .
        BadBpduTest:             .
        TrapTest:                .
        MatchTest:               .
        SpanTest:                .
        CaptureTest:             .
Loopback Status [Reported by Module 1] :
  Ports 1  2
  -----------
        .  .

Channel Status :
  Ports 1  2
  -----------
        .  .


Console> show test diaglevel
```

show test diagfail-action

Table 2-106 describes the possible fields in the command output. The fields shown depend on the module type queried.

Table 2-106 show test Command Output Fields

Field	Description
Environmental Status	Test results that apply to the general system environment.
PS (3.3V)	Test results for the 3.3 V power supply.
PS (12V)	Test results for the 12 V power supply.
PS (24V)	Test results for the 24 V power supply.
PS1	Test results for power supply 1.
PS2	Test results for power supply 2.
Temperature	Test results for the temperature.
Fan	Test results for the fan.
Module #	Test results that apply to the module #. The module type is indicated as well.
Network Management Processor (NMP) Status	Test results that apply to the NMP on the supervisor engine module.
ROM	Test results for the ROM.
Flash-EEPROM	Test results for the Flash EEPROM.
Ser-EEPROM	Test results for the serial EEPROM.
NVRAM	Test results for the NVRAM.
EARL Status	Fields that display the EARL status information.
NewLearnTest	Test results for the NewLearn test (EARL).
IndexLearnTest	Test results for the IndexLearn test (EARL).
DontForwardTest	Test results for the DontForward test (EARL).
MonitorTest	Test results for the Monitor test (EARL).
DontLearn	Test results for the DontLearn test (EARL).
FlushPacket	Test results for the FlushPacket test (EARL).
ConditionalLearn	Test results for the ConditionalLearn test (EARL).
EarlLearnDiscard	Test results for the EarlLearnDiscard test (EARL).
EarlTrapTest	Test results for the EarlTrap test (EARL).
LCP Diag Status for Module 1	Test results for the specified module.
CPU	Test results for the CPU.
Sprom	Test results for the serial PROM.
Bootcsum	Test results for the Boot ROM checksum.
Archsum	Test results for the archive Flash checksum.
RAM	Test results for the RAM.
LTL	Test results for the local-target logic.
CBL	Test results for the color-blocking logic.

Command Output Fields (continued)

FLASH	Test results for the Flash memory.
EOBC	Channel through which a module exchanges control messages with the other modules in the system.
Local Power	Status of the DC converter on a module that supplies power to the entire module except the power management block on the module.
Phoenix	Test results for the Phoenix.
TrafficMeter	Test results for the TrafficMeter.
UplinkSprom	Test results for the Uplink SPROM.
PhoenixSprom	Test results for the Phoenix SPROM.
MII Status	Test results for the MII ports.
SAINT/SAGE Status	Test results for the individual SAINT/SAGE chip.
Phoenix Port Status	Test results for the Phoenix ports.
Packet Buffer Status	Test results for the individual packet buffer.
Phoenix Packet Buffer Status	Test results for the Phoenix packet buffer.
Loopback Status	Test results for the loopback test.
Channel Status	Test results for the channel test.

Related Commands

show time

show time

show time

```
          show time
Wed Jan 12 2000, 14:18:52
Console>
```

show timezone

To display the current time zone and offset, use the **show timezone**

show timezone

```
        show timezone
Timezone set to 'pst', offset from UTC is -8 hours
Console>
```

clear timezone
set timezone

show top

show top

show top *N* *metric* *interval* *port_type* **background**

	(Optional) Number of ports displayed; valid values are **1**
	util—utilization **bytes** **pkts** **bcst** **mcst** **errors** **overflow**
interval	
	0 999 seconds. If the value is 0, the N topmost ports by absolute counter values are displayed.
	(Optional) Type of switch ports to use for report; valid values are as follows: —All port types are used —All Ethernet port types are used —10-Mbps Ethernet ports types are used —Fast Ethernet port types are used —Gigabit Ethernet port types are used —10-Gigabit Ethernet port types are used
	(Optional) Specifies the TopN report not to print to the screen when the task is done. Instead, a notification is sent out when the reports are ready.

- **20**

util

30

all

You can terminate TopN processes with the option specified only by using the [*report_num*

report_num

Ctrl-C

clear top

background

```
        show top 10 util interval 600 background
03/09/2000,14:05:38:MGMT-5: TopN report 2 started by telnet/172.20.22.7/.
Console>
03/09/2000,14:15:38:MGMT-5: TopN report 2 available.
```

```
Console> show top 10 util interval 600
Start Time:      03/19/2000,12:04:16
End Time:        03/19/2000,12:14:18
PortType:        all
Metric:          util
Port  Band- Uti Tx/Rx-bytes          Tx/Rx-pkts Tx/Rx-bcst Tx/Rx-mcst In-  Buf-
      width  %                                                      err  Ovflw
----- ----- --- -------------------- ---------- ---------- ---------- ---- -----
 1/1  100     0 65433                824         0          719        0     0
 5/48 10    0 3543              45      0        34       0    0
 5/47 10    0 45367            124      0        219      0    0
 5/46 10    0 23456            49       0        108      0    0
Console>
```

```
Console> show top 5 10e interval 0
```

```
      width  %  (Tx + Rx)            (Tx + Rx)  (Tx + Rx)  (Tx + Rx)  (Rx)  flow
----- ----- --- -------------------- ---------- ---------- ---------- ----- ----
2/1     10   0                     0          0          0          0     0    0
3/12  auto   0                     0          0          0          0     0    0
3/11  auto   0                     0          0          0          0     0    0
3/10  auto   0                     0          0          0          0     0    0
3/9   auto   0                     0          0          0          0     0    0
Console>
```

show top report

Syntax Description

	(Optional) TopN report number for each process.

Defaults

Command Types

Command Modes

Usage Guidelines

Examples

```
  5  03/09/2000,11:34:26 60  20  In-Errors   pending* Console//
Console>
```

This example shows an attempt to display a TopN report 5 (shown in the first example) that is still in pending status:

This example shows how to display the available TopN report 2 (shown in the first example) for the switch:

show traffic

Syntax Description

Defaults

Command Types

Command Modes

Examples

Engine 1 with Layer 3 Switching Engine (WS-F6K-PFC):

This example shows the traffic and peak information display on a system configured with the Supervisor Engine 2 with Layer 3 Switching Engine II (PFC II):

show trunk

/port **extended-range**

detail	
extended-range	

show trunk

show trunk

show trunk detail

show trunk

show trunk

```
# - indicates dot1q-all-tagged enabled on the port
Port Mode Encapsulation Status Native vlan
----- ------- -------------------- --------- ----------------
1/1 desirable dot1q trunking# 1
1/2 auto n-dot1q trunking 1
Console>
```

```
Console> show trunk 1/1 detail
Port      Mode         Encapsulation  Status        Native vlan
--------  -----------  -------------  ------------  -----------
 1/1      auto         negotiate      not-trunking  1

Port      Peer-Port  Mode         Encapsulation  Status
--------  ---------  -----------  -------------  ------------
 1/1      2/3        auto         n-isl          not-trunking

Port      TrunkFramesTx         TrunkFramesRx         WrongEncap
--------  --------------------  --------------------  ----------
 1/1                       0                     0           0

Port      Vlans allowed on trunk
--------  ---------------------------------------------------------------------
 1/1      1-1005

Port      Vlans allowed and active in management domain
--------  ---------------------------------------------------------------------
 1/1      1

Port      Vlans in spanning tree forwarding state and not pruned
--------  ---------------------------------------------------------------------
 1/1
Console>
```

```
Console> show trunk 3/1 detail
Port      Mode         Encapsulation  Status        Native vlan
--------  -----------  -------------  ------------  -----------
 3/1      auto         negotiate      not-trunking*  1

Port      Peer-Port  Mode         Encapsulation  Status
--------  ---------  -----------  -------------  ------------
 3/1      2/3        auto         n-isl          not-trunking

Port      TrunkFramesTx         TrunkFramesRx         WrongEncap
--------  --------------------  --------------------  ----------
 3/1                       0                     0           0

Port      Vlans allowed on trunk
--------  ---------------------------------------------------------------------
 3/1      1-1005
```

```
Port      Vlans allowed and active in management domain
--------  --------------------------------------------------------------------
 3/1      2

Port      Vlans in spanning tree forwarding state and not pruned
--------  --------------------------------------------------------------------
 3/1
Console>


Console> show trunk extended-range
```

Table 2-107 describes the fields in the command outputs.

Table 2-107 show trunk Command Output Fields

	Number of ISL/802.1Q frames transmitted on a port.
TrunkFramesRx	Number of ISL/802.1Q frames received on a port.
WrongEncap	Number of frames with the wrong encapsulation received on a port.

show udld

Syntax Description

	Specifies module and ports or just modules.
	(Optional) Number of the module for which UDLD information is displayed.
	(Optional) Number of the port for which UDLD information is displayed.

Defaults

Command Types

Command Modes

Examples

Table 2-108 describes the fields in the command output.

Table 2-108 show udld Command Output Fields

Related Commands