



## Monitoring System Processes and Logs

This chapter provides details on monitoring the health of the switch. It includes the following sections:

- [Displaying System Processes, page 16-1](#)
- [Displaying System Status, page 16-3](#)

### Displaying System Processes

Use the **show processes** command to obtain general information about all processes (see [Example 16-1](#) to [Example 16-3](#)).

#### *Example 16-1 Displays System Processes*

```
switch# show processes
PID PPID %CPU TIME ELAPSED      COMMAND
163 141  0.0  00:00:00 16:23:32  cns
164 141  0.0  00:00:00 16:23:32  ens
169 141  0.0  00:00:00 16:23:32  dlog
170 141  0.0  00:00:04 16:23:32  ds
171 141  0.0  00:00:01 16:23:32  mgmtApp
172 141  0.0  00:00:00 16:23:32  sys2swlog
173 141  0.0  00:00:00 16:23:32  fc2
174 141  0.0  00:00:00 16:23:32  nserver
175 141  0.0  00:00:00 16:23:32  mserver
176 141  0.0  00:00:00 16:23:32  util
177 141  0.0  00:00:01 16:23:32  snmpservicepath
178 141  0.0  00:00:00 16:23:31  eport
179 141  0.0  00:00:00 16:23:31  PortApp
180 141  0.0  00:00:00 16:23:31  port_mon
181 141  0.0  00:00:00 16:23:31  zoning
182 141  0.0  00:00:00 16:23:31  diagApp
241 141  0.0  00:00:00 16:23:18  snmpd
242 141  0.0  00:00:00 16:23:18  snmpmain
244 242  0.0  00:00:00 16:23:17  snmpmain
245 244  0.0  00:00:00 16:23:17  snmpmain
```

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Where:

- PID = process ID
- PPID=arent process identification number
- %CPU=CPU utilization in percentage for the last one second
- TIME ELAPSED=elapsed time
- COMMAND=name of the process

### Example 16-2 Displays Process Log Information

```
switch# show processes log
Process                Log-create-time
-----
backtrace-clishco     Tue Apr 26 18:45:39 2005
```

Where:

- Process = name of the process
- Log-create-time = when the log file was generated

### Example 16-3 Displays All Process Log Details

```
switch# show processes log details
=====
Service                : backtrace-clishco
Modification time: Tue Apr 26 18:45:39 2005
-----
*** Segmentation fault
Register dump:
fp0-3:  00000008000704e0 0000000000000000 0000000000000000 0000000000000000
fp4-7:  0000000000000000 0000000000000000 0000000000000000 0000000000000000
fp8-11: 0000000000000000 0000000000000000 0000000000000000 0000000000000000
fp12-15: 0000000000000000 0000000000000063 0000000000000000 0000000000000000
fp16-19: 0000000000000000 0000000000000000 0000000000000000 0000000000000000
fp20-23: 0000000000000000 0000000000000000 0000000000000000 0000000000000000
fp24-27: 0000000000000000 0000000000000000 0000000000000000 0000000000000000
fp28-31: 0000000000000000 0000000000000000 0000000000000000 0000000000000000
r0 =00000000 sp =7fffba50 r2 =00000000 r3 =65727665 trap=00000300
r4 =1011739c r5 =1026a2f0 r6 =00000000 r7 =00000000 sr0=0faacecc srl=0000d032
r8 =000000b8 r9 =0fb6b11c r10=7fffcdb9 r11=10030be0 dar=65727661 dsi=20000000
r12=4400286c r13=1027bdc0 r14=00000000 r15=00000000 r3*=00000003
r16=00000000 r17=00000000 r18=00000000 r19=00000000
r20=00000000 r21=00000000 r22=7fffbf28 r23=7fffbfa8 lr=0fb68ed8 xer=00000000
r24=7fffbfa8 r25=7fffbcd8 r26=7fffbcd8 r27=00000000 mq=c0160000 ctr=10030aac
r28=00000001 r29=00000000 r30=0fb68ed8 r31=6572765d fscr=00000000 ccr=42002860
Backtrace:
/lib/libc.so.6(__libc_free+0x68) [0xfaacecc]
/lib/libstdc++.so.5(_ZdlPv+0x18) [0xfcdec5c]
/lib/libstdc++.so.5(_ZdaPv+0x10) [0xfcdeca4]
-clishco [0x10030b14]
-clishco [0x1001ae98]
/itasca/lib/libMgmtapi.so(_ZN7mgmtApi8recv_msgEP11Hsb_Message+0x138) [0xff91d3c]
/itasca/lib/libswbApi.so(_ZN11Hsb_Handler4recvEP11Hsb_Message+0x94) [0xffd383c]
/itasca/lib/libswbApi.so(_ZN13Vpipe_Handler12handle_inputEi+0xc8) [0xffdaae8]
/itasca/lib/libswbApi.so(_ZN10Dispatcher12dispatch_setERi6fd_seti+0x144) [0xffcfbc0]
/itasca/lib/libswbApi.so(_ZN10Dispatcher8dispatchEi6fd_setS0_S0_+0x98) [0xffcf9cc]
/itasca/lib/libswbApi.so(_ZN10Dispatcher13handle_eventsEP7timeval+0x208) [0xffd0138]
/itasca/lib/libswbApi.so(_ZN3Hsb13handle_eventsEP7timeval+0x20) [0xffd07c4]
-clishco [0x100150ac]
```

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```
-clishco[0x10014db0]
/lib/libc.so.6(__libc_start_main+0x19c) [0xfa5456c]

Process Status:
Name: clishco
State:          R (running)
Tgid: 302
Pid: 302
PPid: 301
TracerPid:     0
Uid: 10003     10003   10003   10003
Gid: 1000      1000    1000    1000
FDSize:       32
Groups:       1000
VmSize:       24132 kB
VmLck:        0 kB
VmRSS:        2528 kB
VmData:       360 kB
VmStk:        56 kB
VmExe:        0 kB
VmLib:        2488 kB
SigPnd:       0000000000000000
SigBlk:       0000000000000400
SigIgn:       0000000000080000
SigCgt:       0000000000014e2
CapInh:       0000000000000000
CapPrm:       0000000000000000
CapEff:       0000000000000000
```

## Displaying System Status

Use the **show system** command to display system-related status information (see [Example 16-4](#) and [Example 16-5](#)).

### *Example 16-4 Displays the System Reset Information*

```
switch# Show system reset-reason
----- reset reason for module 1 -----
1) At 215435 usecs after Mon Apr 25 11:01:12 2005
   Reason: PowerUp
```

The **show system reset-reason** command displays the last reset-reason code.

### *Example 16-5 Displays System Uptime*

```
switch# show system uptime
System Start Time:      Mon Apr 25 11:01:12 2005
System Up Time:        0 days, 10 hours, 58 minutes, 38 seconds
Active Supervisor Up Time: 0 days, 10 hours, 58 minutes, 38 seconds
```

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