



# Viewing Sensors

This chapter includes the following sections:

- [Viewing Chassis Sensors, on page 1](#)
- [Viewing Server Sensors, on page 7](#)

## Viewing Chassis Sensors

### Viewing Power Supply Sensors

#### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show psu</b>	Displays power supply sensor statistics for the server.
<b>Step 3</b>	Server /sensor # <b>show psu-redundancy</b>	Displays power supply redundancy sensor status for the server.

#### Example

This example displays power supply sensor statistics:

```
Server# scope sensor
Server /sensor # show psu
Name           Sensor Status  Reading  Units  Min. Warning  Max. Warning  Min. Failure  Max.
Failure
-----
SU1_PIN
1098           Normal         102     Watts  N/A           882           N/A
PSU2_PIN
1098           Normal         96      Watts  N/A           882           N/A
PSU3_PIN
1098           Normal         102     Watts  N/A           882           N/A
PSU4_PIN
1098           Normal         96      Watts  N/A           882           N/A
```

```

1098
PSU1_POUT      Normal      78      Watts      N/A      798      N/A
996
PSU2_POUT      Normal      78      Watts      N/A      798      N/A
996
PSU3_POUT      Normal      84      Watts      N/A      798      N/A
996
PSU4_POUT      Normal      84      Watts      N/A      798      N/A
996
POWER_USAGE    Normal      406     Watts      N/A      N/A      N/A
2674
PSU1_DC_OK     Normal      good
PSU2_DC_OK     Normal      good
PSU3_DC_OK     Normal      good
PSU4_DC_OK     Normal      good
PSU1_AC_OK     Normal      good
PSU2_AC_OK     Normal      good
PSU3_AC_OK     Normal      good
PSU4_AC_OK     Normal      good
PSU1_STATUS    Normal      present
PSU2_STATUS    Normal      present
PSU3_STATUS    Normal      present
PSU4_STATUS    Normal      present

Server /sensor # show psu-redundancy
Name              Reading          Sensor Status
-----
PS_RDNDNT_MODE    full             Normal

Server /sensor #

```

## Viewing Fan Sensors

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show fan [detail]</b>	Displays fan sensor statistics for the server.

### Example

This example displays fan sensor statistics:

```

Server# scope sensor
Server /sensor # show fan

```

Name	Sensor Status	Reading	Units	Min. Warning	Max. Warning	Min. Failure	Max. Failure
PSU1_FAN_SPEED N/A	Normal	5160	RPM	1118	N/A		946
PSU2_FAN_SPEED N/A	Normal	6106	RPM	1118	N/A		946
PSU3_FAN_SPEED N/A	Normal	5762	RPM	1118	N/A		946
PSU4_FAN_SPEED N/A	Normal	4988	RPM	1118	N/A		946
FAN1_SPEED N/A	Normal	6600	RPM	2040	N/A		1800
FAN2_SPEED N/A	Normal	6660	RPM	2040	N/A		1800
FAN3_SPEED N/A	Normal	6600	RPM	2040	N/A		1800
FAN4_SPEED N/A	Normal	6660	RPM	2040	N/A		1800
FAN5_SPEED N/A	Normal	6660	RPM	2040	N/A		1800
FAN6_SPEED N/A	Normal	6660	RPM	2040	N/A		1800
FAN7_SPEED N/A	Normal	6660	RPM	2040	N/A		1800
FAN8_SPEED N/A	Normal	6660	RPM	2040	N/A		1800

Server /sensor #

## Viewing Current Sensors

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show current</b>	Displays current sensor statistics.

### Example

This example displays current sensor statistics:

```
Server# scope sensor
Server /sensor # show current
Name           Sensor Status Reading    Units    Min. Warning Max. Warning Min. Failure Max.
Failure
-----
PSU1_IOUT      Normal         6.00     AMP      N/A          78.00      N/A
87.00
PSU2_IOUT      Normal         6.00     AMP      N/A          78.00      N/A
87.00
PSU3_IOUT      Normal         7.00     AMP      N/A          78.00      N/A
87.00
PSU4_IOUT      Normal         7.00     AMP      N/A          78.00      N/A
87.00
```

Server /sensor #

## Viewing Voltage Sensors

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show voltage</b>	Displays voltage sensor statistics.

### Example

This example displays voltage sensor statistics:

```
Server# scope sensor
Server /sensor # show voltage
Name           Sensor Status  Reading    Units  Min. Warning Max. Warning Min. Failure
Max. Failure
-----
SIOC_P1V0      Normal         1.000     V      N/A        N/A        0.944
 1.064
SIOC_P1V2      Normal         1.208     V      N/A        N/A        1.128
 1.272
SIOC_P1V5      Normal         1.500     V      N/A        N/A        1.410
 1.590
SIOC_P2V5      Normal         2.478     V      N/A        N/A        2.338
 2.646
SIOC_P3V3      Normal         3.320     V      N/A        N/A        3.100
 3.500
SIOC_P12V_STBY Normal        12.060     V      N/A        N/A       11.280
 12.720
SIOC_P3V3_STBY Normal         3.360     V      N/A        N/A        3.140
 3.460
PSU1_VIN       Normal        228.000     V      N/A        N/A        N/A
 264.000
PSU2_VIN       Normal        228.000     V      N/A        N/A        N/A
 264.000
PSU3_VIN       Normal        228.000     V      N/A        N/A        N/A
 264.000
PSU4_VIN       Normal        228.000     V      N/A        N/A        N/A
 264.000
P5V_1          Normal         5.010     V      N/A        N/A        4.500
 5.640
P5V_2          Normal         5.010     V      N/A        N/A        4.500
 5.640
P5V_3          Normal         5.010     V      N/A        N/A        4.500
 5.640
P5V_4          Normal         5.010     V      N/A        N/A        4.500
 5.640
POV9_EXP1_VCORE Normal         0.872     V      N/A        N/A        0.836
 0.976
POV9_EXP2_VCORE Normal         0.872     V      N/A        N/A        0.836
 0.976
POV9_EXP1_AVD Normal         0.888     V      N/A        N/A        0.836
```

```

0.976
POV9_EXP2_AVD Normal 0.904 V N/A N/A 0.836
0.976
PSU1_VOUT Normal 12.000 V N/A N/A N/A
12.600
PSU2_VOUT Normal 12.000 V N/A N/A N/A
12.600
PSU3_VOUT Normal 12.000 V N/A N/A N/A
12.600
PSU4_VOUT Normal 12.000 V N/A
Server /sensor #

```

## Viewing Temperature Sensors

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show temperature</b>	Displays temperature sensor statistics.

### Example

This example displays temperature sensor statistics:

```

Server# scope sensor
Server /sensor # show temperature
Name Sensor Status Reading Units Min. Warning Max. Warning Min. Failure
Max. Failure
-----
SIOC1_BACK_TEMP Normal 37.0 C N/A 70.0 N/A
80.0
SIOC1_FRONT_TEMP Normal 42.0 C N/A 70.0 N/A
80.0
SIOC1_MID_TEMP Normal 41.0 C N/A 70.0 N/A
80.0
SIOC1_VIC_TEMP Normal 44.0 C N/A 70.0 N/A
80.0
SIOC2_VIC_TEMP Normal 44.0 C N/A 70.0 N/A
80.0
MOBO_R_BOT_TEMP Normal 30.0 C N/A 70.0 N/A
80.0
MOBO_L_BOT_TEMP Normal 31.0 C N/A 70.0 N/A
80.0
MOBO_R_MID_TEMP Normal 25.0 C N/A 50.0 N/A
55.0
MOBO_R_IN_TEMP Normal 24.0 C N/A 50.0 N/A
55.0
MOBO_L_IN_TEMP Normal 26.0 C N/A 50.0 N/A
55.0
MOBO_L_MID_TEMP Normal 26.0 C N/A 50.0 N/A
55.0
MOBO_R_OUT_TEMP Normal 29.0 C N/A 47.0 N/A
52.0
MOBO_L_OUT_TEMP Normal 29.0 C N/A 46.0 N/A
51.0

```

```

PSU1_TEMP           Normal      24.0      C          N/A        55.0      N/A
  60.0
PSU2_TEMP           Normal      27.0      C          N/A        55.0      N/A
  60.0
PSU3_TEMP           Normal      27.0      C          N/A        55.0      N/A
  60.0
PSU4_TEMP           Normal      25.0      C          N/A        55.0      N/A
  60.0
SIOC1_CMC_TEMP      Normal      51.0      C          N/A        75.0      N/A
  85.0
MOBO_R_EXP_TEMP     Normal      37.0      C          N/A        80.0      N/A
  90.0
MOBO_L_EXP_TEMP     Normal      40.0      C          N/A        80.0      N/A
  90.0
SIOC2_BACK_TEMP     Normal      36.0      C          N/A        70.0      N/A
  80.0
SIOC2_FRONT_TEMP    Normal      36.0      C          N/A        70.0      N/A
  80.0
SIOC2_MID_TEMP      Normal      36.0      C          N/A        70.0      N/A
  80.0
SIOC2_CMC_TEMP      Normal      36.0      C          N/A        75.0      N/A
  85.0
Server /sensor #

```

## Viewing LED Sensor

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show led</b>	Displays LED sensor statistics.

### Example

This example displays LED sensor statistics:

```

Server# scope sensor
Server /sensor # show led
LED Name                LED State  LED Color
-----
LED_FAN12_FAULT         OFF        AMBER
LED_FAN34_FAULT         OFF        AMBER
LED_FAN56_FAULT         OFF        AMBER
LED_FAN78_FAULT         OFF        AMBER
CHS_FP_LED_ID           OFF        BLUE
LED_HLTH_STATUS         ON         GREEN
LED_PSU_STATUS          ON         GREEN
LED_TEMP_STATUS         ON         GREEN
LED_FAN_STATUS          ON         GREEN
SERVER1_FP_ID_LED       OFF        BLUE
SERVER2_FP_ID_LED       OFF        BLUE
OVERALL_DIMM_STATUS     ON         GREEN
Server /sensor #

```

# Viewing Server Sensors

## Viewing Storage Sensors

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server # <b>scope server</b> {1   2}	Enters server command mode of server 1 or 2.
<b>Step 2</b>	Server /server # <b>scope sensor</b>	Enters sensor command.
<b>Step 3</b>	Server /server /sensor # <b>show hdd</b>	Displays the storage sensors for the server.

### Example

This example displays the storage sensors for the server:

```
Server# scope server 1
Server /server #scope sensor
Server /server /sensor #show hdd
Name                Status
-----
SSD1_PRS            inserted
SSD2_PRS            inserted

Server server /sensor #
```

## Viewing Current Sensors

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server # <b>scope server</b> {1   2}	Enters server command mode of server 1 or 2.
<b>Step 2</b>	Server /server # <b>scope sensor</b>	Enters sensor command.
<b>Step 3</b>	Server /server /sensor # <b>show current</b>	Displays the current sensors for the server.

### Example

This example displays the current sensors for the server:

```
Server# scope server 1
Server /server #scope sensor
Server /server /sensor #show current
Name                Sensor Status Reading Units Min. Warning Max. Warning Min. Failure Max.
-----
Failure
```

```

-----
P12V_CUR_SENS Normal      5.84      AMP      N/A      N/A      N/A
56.90
Server server /sensor #

```

## Viewing LED Sensors

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server # <b>scope server</b> {1   2}	Enters server command mode of server 1 or 2.
<b>Step 2</b>	Server /server # <b>scope sensor</b>	Enters sensor command.
<b>Step 3</b>	Server /server /sensor # <b>show led</b>	Displays the LED sensors for the server.

### Example

This example displays the LED sensors for the server:

```

Server# scope server 1
Server /server #scope sensor
Server /server /sensor #show led
LED Name                LED State  LED Color
-----
FP_ID_LED                FAST BLINK BLUE
P1_DIMM_A1_LED           OFF        AMBER
P1_DIMM_A2_LED           OFF        AMBER
P1_DIMM_B1_LED           OFF        AMBER
P1_DIMM_B2_LED           OFF        AMBER
P1_DIMM_C1_LED           OFF        AMBER
P1_DIMM_C2_LED           OFF        AMBER
P1_DIMM_D1_LED           OFF        AMBER
P1_DIMM_D2_LED           OFF        AMBER
P2_DIMM_E1_LED           OFF        AMBER
P2_DIMM_E2_LED           OFF        AMBER
P2_DIMM_F1_LED           OFF        AMBER
P2_DIMM_F2_LED           OFF        AMBER
P2_DIMM_G1_LED           OFF        AMBER
P2_DIMM_G2_LED           OFF        AMBER
P2_DIMM_H1_LED           OFF        AMBER
P2_DIMM_H2_LED           OFF        AMBER
LED_HLTH_STATUS          ON         GREEN
LED_TEMP_STATUS          ON         GREEN
OVERALL_DIMM_STATUS      ON         GREEN

Server server /sensor #

```



## Viewing Temperature Sensors

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server # <b>scope server</b> {1   2}	Enters server command mode of server 1 or 2.
<b>Step 2</b>	Server /server # <b>scope sensor</b>	Enters sensor command.
<b>Step 3</b>	Server /server /sensor # <b>show temperature</b>	Displays the temperature sensors for the server.

### Example

This example displays the temperature sensors for the server:

```

Server# scope server 1
Server /server #scope sensor
Server /server /sensor #show temperature
Name          Sensor Status Reading Units  Min. Warning Max. Warning Min. Failure
Max. Failure
-----
-----
TEMP_SENS_FRONT Normal      24.0    C      N/A      60.0      N/A
 70.0
TEMP_SENS_REAR Normal      25.0    C      N/A      80.0      N/A
 85.0
P1_TEMP_SENS Normal      21.0    C      N/A      74.0      N/A
 79.0
P2_TEMP_SENS Normal      23.5    C      N/A      74.0      N/A
 79.0
DDR3_P1_A1_TEMP Normal      23.0    C      N/A      65.0      N/A
 85.0
DDR3_P1_A2_TEMP Normal      23.0    C      N/A      65.0      N/A
 85.0
DDR3_P1_B1_TEMP Normal      23.0    C      N/A      65.0      N/A
 85.0
DDR3_P1_B2_TEMP Normal      23.0    C      N/A      65.0      N/A
 85.0
DDR3_P1_C1_TEMP Normal      24.0    C      N/A      65.0      N/A
 85.0
DDR3_P1_C2_TEMP Normal      24.0    C      N/A      65.0      N/A
 85.0
DDR3_P1_D1_TEMP Normal      24.0    C      N/A      65.0      N/A
 85.0
DDR3_P1_D2_TEMP Normal      23.0    C      N/A      65.0      N/A
 85.0
DDR3_P2_E1_TEMP Normal      23.0    C      N/A      65.0      N/A
 85.0
DDR3_P2_E2_TEMP Normal      23.0    C      N/A      65.0      N/A
 85.0
DDR3_P2_F1_TEMP Normal      22.0    C      N/A      65.0      N/A
 85.0

Server server /sensor #

```

## Viewing Voltage Sensors

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server # <b>scope server</b> {1   2}	Enters server command mode of server 1 or 2.
<b>Step 2</b>	Server /server # <b>scope sensor</b>	Enters sensor command.
<b>Step 3</b>	Server /server /sensor # <b>show voltage</b>	Displays the voltage sensors for the server.

### Example

This example displays the voltage sensors for the server:

```

Server# scope server 1
Server /server #scope sensor
Server /server /sensor #show voltage
Name           Sensor Status Reading Units   Min. Warning Max. Warning Min. Failure
Max. Failure
-----
-----
P3V_BAT_SCALED Normal          2.973   V      N/A      N/A      2.154
  3.418
P5V_STBY       Normal          4.909   V      N/A      N/A      4.555
  5.452
P3V3_STBY      Normal          3.302   V      N/A      N/A      3.018
  3.602
P1V1_SSB_STBY Normal          1.088   V      N/A      N/A      1.000
  1.205
P1V8_STBY      Normal          1.784   V      N/A      N/A      1.627
  1.980
P1V0_STBY      Normal          0.990   V      N/A      N/A      0.911
  1.088
P1V5_STBY      Normal          1.490   V      N/A      N/A      1.372
  1.637
P0V75_STBY     Normal          0.725   V      N/A      N/A      0.686
  0.823
P2V5_STBY      Normal          2.484   V      N/A      N/A      2.279
  2.734
P12V           Normal          11.977  V      N/A      N/A      11.210
  12.803
P5V            Normal          5.031   V      N/A      N/A      4.680
  5.335
P3V3           Normal          3.276   V      N/A      N/A      3.089
  3.526
P1V5_SSB       Normal          1.482   V      N/A      N/A      1.412
  1.607
P1V1_SSB       Normal          1.084   V      N/A      N/A      1.037
  1.178
PVTT_P1        Normal          0.991   V      N/A      N/A      0.944
  1.061
PVTT_P2        Normal          0.975   V      N/A      N/A      0.944
  1.061
PVSA_P1        Normal          0.959   V      N/A      N/A      0.593
  1.170

Server server /sensor #

```