digital

Improving UltraSCSI RAID Subsystem Operation

DIGITAL is manufacturing the DS–BA370–series UltraSCSI enclosures with the following temperature set points:

- EMU —41°C (106°F)
- Backplane—48°C (118°F)

The procedure for establishing different temperature set points on pages 3–7 through 3–9, *DIGITAL StorageWorks UltraSCSI RAID Enclosure (DS–BA370–Series) User's Guide*, is replaced by the following:

Setting the Temperature Sensors

There are three temperature sensors in each UltraSCSI enclosure – two on the rear of the backplane in the top middle and one mounted on the EMU module. You have the option of setting the temperature at which an individual sensor reports an overtemperature condition. You enter the desired temperature in degrees Celsius (°C) within the range of 0°C (32°F) through 49°C (120°F).

The EMU sensor monitors the EMU air temperature, while the two enclosure sensors monitor the exhaust air temperature. The exhaust air temperature is higher than the EMU air temperature.

In an expansion configuration you can only set the master EMU temperatures. The temperature set points for the other UltraSCSI enclosures automatically change to match the master EMU setting.

Use the following CLI commands to set the temperature set point for each EMU:

```
set emu sensor_1_set point=48
set emu sensor_2_set point=48
set emu sensor_3_set point=41
where:    1 = backplane sensor 1 (exhaust)
          2 = backplane sensor 2 (exhaust)
          3 = EMU sensor (intake)
```

DIGITAL recommends that you use these set points.

Caution

Use of the CLI command `set emu sensor_n set point=default` establishes a set point that is too low. This can result in an erroneous subsystem alarm.

Temperature Set Point Rules

You can set the temperature set points to other temperatures providing you implement the following rules:

1. All temperatures are entered in degrees Centigrade (°C). You cannot enter temperatures as fractions, decimals, or degrees Fahrenheit (°F).
2. The EMU set point (sensor_3) temperature must be a minimum of 6°C (11°F) greater than the highest expected ambient temperature.
3. The backplane set points (sensor_1 and sensor_2) must be the same temperature.
4. The backplane set points (sensor_1 and sensor_2) must be a minimum of 13°C (23°F) greater than the highest expected ambient temperature.

Temperature Conversion

Use the following table to convert °F to °C.

°C	°F	°C	°F	°C	°F	°C	°F
0	32	14	57	27	81	37	99
1	34	15	59	28	82	38	100
2	36	16	61	29	84	39	102
3	37	17	63	30	86	40	104
4	39	18	64	31	88	41	106
5	41	19	66	32	90	42	108
6	43	20	68	33	91	43	109
7	45	21	70	34	93	44	111
8	46	22	72	35	95	45	113
9	48	23	73	36	97	46	115
10	50	24	75	40	104	47	117
11	52	25	77	41	106	48	118
12	54	26	79	42	108	49	120
13	55						

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