

知 3Par 20000 node6的ps0和ps1同时报device failure

硬件相关 王建科 2020-06-29 发表

组网及说明

3par 20000

问题描述

3par 20000 node6的ps0和ps1同时报device failure:
checkhealth:

```
Component -Identifier- -----Detailed Description-----  
Node node:6 Environmental factor PS0 12.00V is DEVICE FAILURE  
Node node:6 Environmental factor PS0 Ampln is DEVICE FAILURE  
Node node:6 Environmental factor PS0 Current is DEVICE FAILURE  
Node node:6 Environmental factor PS0 Inlet Temp is DEVICE FAILURE  
Node node:6 Environmental factor PS0 Temp is DEVICE FAILURE  
Node node:6 Environmental factor PS0 VoltIn is DEVICE FAILURE  
Node node:6 Environmental factor PS1 12.00V is DEVICE FAILURE  
Node node:6 Environmental factor PS1 Ampln is DEVICE FAILURE  
Node node:6 Environmental factor PS1 Current is DEVICE FAILURE  
Node node:6 Environmental factor PS1 Inlet Temp is DEVICE FAILURE  
Node node:6 Environmental factor PS1 Temp is DEVICE FAILURE  
Node node:6 Environmental factor PS1 VoltIn is DEVICE FAILURE  
但shownode ps正常:  
6 0 5BXRFDLL9Y0YU OK Off OK OK OK  
6 1 5BXRFDLL9Y1TA OK Off OK OK OK
```

过程分析

因为shownode显示两个电源正常，所以一开始怀疑是node6通过管理总线无法正确获取ps状态信息，尝试重启nemoe tool，重启node6，都没有解决问题。后来更换node6也没有解决。

解决方法

通过nemoe tool的日志，看到有如下报错：

```
PowerSupply Load Sharing FAIL: PS0=432W PS1=20W
```

提示两个ps的负载不均衡，ps0是432W,而ps1只有20W,正常两个平均在200多W是比较正常的。由于ps1的输出功率只有20W,所以怀疑ps1有问题，更换ps1后问题解决。