

技術不在ASR5500上：電壓警報故障，低電壓錯誤

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簡介

本文闡述了如何解決低電壓報警和低電壓誤差的問題。

問題：不良電壓和低電壓錯誤

顯示零電壓的系統日誌

```
[drvctrl 39008 error] [6/0/13445 <hwctrl:0> hwctrl_msgs.c:501] [software internal system
syslog] [DRIVER CONTROLLER] Low voltage error at card 5 with voltage (CPU0 VTT) current 0.000000
V low 0.839000 V high 1.277000 V.
```

在電壓部分顯示卡資訊***告「***壞 (報警)」

```
[local]# show card info 5
Card 5:
Slot Type           : MMIO
Card Type           : Management & 20x10Gb I/O Card
Daughter Cards      : DC1 DC2
Operational State   : Standby
Redundant With      : 6
Framing Mode        : Unspecified
Last State Change   : Wednesday April 13 02:03:56 PDT 2016
Administrative State : Enabled
Card Lock           : Locked
Reboot Pending      : No
Upgrade In Progress : No
Card Usable         : Yes
Single Point of Failure : n/a
Temperature         : Normal
Voltages           : Bad ***ALARM***
Card LEDs           : Run/Fail: Green | Active: Off | Redundant: Green
Card LEDs           : Master: Off
CPU 0               : Diags/Kernel Running, Tasks Running
Error ID Log        : None
Boot Progress Log   : None
```

請驗證show card diag輸出是否顯示電壓正常。

```
[local]# show card diag 5
```

```
Card 5:
```

Counters:

Successful Warm Boots : 4
(last at Wednesday April 13 02:03:51 PDT 2016)
Successful Cold Boots : 22
(last at Wednesday March 16 02:23:29 PDT 2016)
Total Boot Attempts : 38
In Service Date : Sat Feb 09 19:53:01 2013 (Estimated)

Status:

IDEEPROM Magic Number : Good
Boot Mode : Normal
Card Diagnostics : Pass
Current Failure : None
Last Failure : None
Card Usable : Yes
Last Reset Cause CPU 0: Hard Reset, ICH PLT Reset, ITP Reset

Current Environment:

Temp: DDR-COD0 : 31.00 C (limit 95.00 C)
Voltage: 12V-A : 12.035 V
Voltage: CPU0 VTT : 1.106 V (min 0.839 V, max 1.277 V)
Voltage: 12V-B : 11.973 V
Voltage: 12V-C : 11.812 V
Voltage: 1.8V : 1.772 V (min 1.700 V, max 1.900 V)
Voltage: 1.5V : 1.483 V (min 1.430 V, max 1.580 V)
Voltage: CPU0 VCC : 0.918 V (min 0.712 V, max 1.417 V)
Voltage: 1.2V : 1.187 V (min 1.140 V, max 1.260 V)
Voltage: 3.3V : 3.283 V (min 3.140 V, max 3.470 V)
Voltage: 5V : 4.947 V (min 4.750 V, max 5.250 V)
Voltage: 2.5V : 2.497 V (min 2.380 V, max 2.630 V)
Voltage: 1.53V DDR0 : 1.520 V (min 1.282 V, max 1.606 V)
Voltage: 7.5V : 7.460 V (min 7.130 V, max 7.880 V)
Voltage: 1.1V IOH : 1.096 V (min 1.045 V, max 1.155 V)
Voltage: 3.3V Stdby : 3.302 V (min 2.970 V, max 3.630 V)
Voltage: 48V-A : 51.925 V
Voltage: 48V-B : 52.734 V
Current: 48V-A : 5.44 A
Current: 48V-B : 3.56 A
Airflow: Lower Left : 361 FPM
Airflow: Lower Middle : 369 FPM

解決方案

這不是硬體問題，請不要使用RMA卡 — 警報和系統日誌錯誤具有誤導性。請參閱[CSCuz23239](#)錯誤。未正確清除電壓錯誤導致的錯誤/警報。我們看到在先前的卡重置或關閉導致瞬時或競爭狀態電壓讀取後，卡成功啟動的問題。

因應措施：重新拔插卡（在重新拔插之前將卡置於待機狀態，以避免交通影響）

Fix [CSCuz23239](#)包含在21.0及更新版本軟體中。