



## IO扩展端口上的PLX PCIe 8732交换机发生崩溃

[https://kb-cn-stage.netapp.com/on-prem/ontap/OHW/OHW-KBs/IO\\_Expansion\\_Module\\_NMI\\_Panic\\_on...](https://kb-cn-stage.netapp.com/on-prem/ontap/OHW/OHW-KBs/IO_Expansion_Module_NMI_Panic_on...)

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### 适用场景

- ONTAP 9
- FAS8080

### 问题描述

- FAS8080系统导致NMI崩溃、出现在以下服务处理器(SP)的system log中。

示例：

```
PANIC: PCI Error NMI from device(s):ErrSrcID(CorrSrc(0),UCorrSrc(0x8010)),  
RPT(128,2,0):PLX PCIe 8732 switch on IO Expansion, PLX PCIe 8732 switch on  
IO Expansion, ErrSrcID(CorrSrc(0),UCorrSrc(0x8018)), RPT(128,3,0):PLX PCIe  
8732 switch on IO Expansion, PLX PCIe 8732 switch on IO Expansion. in SK  
process waf1_exempt18 on release 9.3P18 (C)
```

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- SP控制台"events all"出现以下错误。

示例：

```
Record 28: Mon Jul 06 14:40:29.620402 2020 [Agent.notice]: 990.526: 160 :
IOXM Fan_B1 Present de-asserted
Record 29: Mon Jul 06 14:40:29.634230 2020 [Agent.notice]: 990.526: 161 :
IOXM Fan_B2 Present de-asserted
Record 30: Mon Jul 06 14:40:29.634821 2020 [Agent.notice]: 990.526: 162 :
IOXM Fan_B3 Present de-asserted
Record 31: Mon Jul 06 14:40:29.691246 2020 [Agent.notice]: 062.792: 43 :
CPU 1 Correctable Error 3 asserted
Record 32: Mon Jul 06 14:40:29.691429 2020 [Agent.notice]: 062.792: 29 :
Non-maskable Interrupt from PCH to CPU asserted
Record 33: Mon Jul 06 14:40:29.742088 2020 [Agent.notice]: 113.649: 42 :
CPU 1 Correctable Error 2 asserted
Record 34: Mon Jul 06 14:40:29.814207 2020 [Agent.notice]: 185.883: 42 :
CPU 1 Correctable Error 2 de-asserted
Record 35: Mon Jul 06 14:40:29.814382 2020 [Agent.notice]: 185.883: 43 :
CPU 1 Correctable Error 3 de-asserted
Record 36: Mon Jul 06 14:40:29.814523 2020 [Agent.notice]: 185.889: 29 :
Non-maskable Interrupt from PCH to CPU de-asserted
Record 37: Mon Jul 06 14:40:30.041525 2020 [IPMI.warning]: Error while
reading sensor number : 44
Record 38: Mon Jul 06 14:40:30.053568 2020 [IPMI.notice]: 0202 | c0 | OEM:
f9ff7020ff2c | ManufId: 150300 | Undefined
Record 39: Mon Jul 06 14:40:30.917594 2020 [IPMI.warning]: Error while
reading sensor number : 45
Record 40: Mon Jul 06 14:40:30.931970 2020 [IPMI.notice]: 0302 | c0 | OEM:
f9ff7020ff2d | ManufId: 150300 | Undefined
Record 41: Mon Jul 06 14:40:32.325609 2020 [IPMI.warning]: Error while
reading sensor number : 189
Record 42: Mon Jul 06 14:40:32.342545 2020 [IPMI.notice]: 0402 | c0 | OEM:
f9ff7020ffbd | ManufId: 150300 | Undefined
Record 43: Mon Jul 06 14:40:32.749519 2020 [IPMI.warning]: Error while
reading sensor number : 190
Record 44: Mon Jul 06 14:40:32.757665 2020 [IPMI.notice]: 0502 | c0 | OEM:
f9ff7020ffbe | ManufId: 150300 | Undefined
Record 45: Mon Jul 06 14:40:32.778577 2020 [IPMI.notice]: 0602 | 02 | EVT:
6f01ffff | IOfan1_Present | Assertion Event, "Absent"
Record 46: Mon Jul 06 14:40:32.793519 2020 [IPMI.notice]: 0702 | 02 | EVT:
```

6f01ffff | IOfan2\_Present | Assertion Event, "Absent"  
Record 47: Mon Jul 06 14:40:32.809474 2020 [IPMI.notice]: 0802 | 02 | EVT:  
6f01ffff | IOfan3\_Present | Assertion Event, "Absent"  
Record 48: Mon Jul 06 14:40:32.898375 2020 [Agent.notice]: 269.611: 14 :  
Attention LED (at Midplane) asserted  
Record 49: Mon Jul 06 14:40:35.640291 2020 [Agent.notice]: 005.571: 42 :  
CPU 1 Correctable Error 2 asserted  
Record 50: Mon Jul 06 14:40:35.640474 2020 [Agent.notice]: 005.571: 29 :  
Non-maskable Interrupt from PCH to CPU asserted  
Record 51: Mon Jul 06 14:40:36.061511 2020 [IPMI.warning]: Error while  
reading sensor number : 14  
Record 52: Mon Jul 06 14:40:36.067951 2020 [IPMI.notice]: 0902 | c0 | OEM:  
f9ff7020ff0e | ManufId: 150300 | Undefined  
Record 53: Mon Jul 06 14:40:36.477533 2020 [IPMI.warning]: Error while  
reading sensor number : 15  
Record 54: Mon Jul 06 14:40:36.484003 2020 [IPMI.notice]: 0a02 | c0 | OEM:  
f9ff7020ff0f | ManufId: 150300 | Undefined  
Record 55: Mon Jul 06 14:40:39.797520 2020 [IPMI.warning]: Error while  
reading sensor number : 42  
Record 56: Mon Jul 06 14:40:39.803964 2020 [IPMI.notice]: 0b02 | c0 | OEM:  
f9ff7020ff2a | ManufId: 150300 | Undefined  
Record 57: Mon Jul 06 14:40:40.213512 2020 [IPMI.warning]: Error while  
reading sensor number : 43  
Record 58: Mon Jul 06 14:40:40.220325 2020 [IPMI.notice]: 0c02 | c0 | OEM:  
f9ff7020ff2b | ManufId: 150300 | Undefined  
Record 59: Mon Jul 06 14:40:29.000000 2020 [Controller.notice]: Appliance  
panic. See logs for cause of panic.  
Record 60: Mon Jul 06 14:40:55.945497 2020 [IPMI.notice]: 0d02 | 02 | EVT:  
6f406fff | Sensor 255 | Assertion Event, "Storage OS stop/shutdown"  
Record 61: Mon Jul 06 14:40:56.226475 2020 [Agent.notice]: 597.574: 11 :  
Controller Attention LED asserted  
Record 62: Mon Jul 06 14:40:56.830983 2020 [Agent.notice]: 202.552: 49 :  
PCH Platform Reset asserted  
Record 63: Mon Jul 06 14:40:56.831147 2020 [Agent.notice]: 202.552: 29 :  
Non-maskable Interrupt from PCH to CPU de-asserted  
Record 64: Mon Jul 06 14:40:56.831291 2020 [Agent.notice]: 202.612: 63 :  
BIOS Complete from PCH de-asserted  
Record 65: Mon Jul 06 14:40:56.831884 2020 [Agent.notice]: 203.592: 42 :  
CPU 1 Correctable Error 2 de-asserted  
Record 66: Mon Jul 06 14:40:56.839826 2020 [Agent.notice]: 211.285: 49 :

PCH Platform Reset de-asserted

Record 67: Mon Jul 06 14:40:56.908653 2020 [SP.critical]: Filer Reboots

- SP控制台"system sensors"无法查看IOXM的状态。

示例：

Sensor Name	Current	Unit	Status	LCR	LNC	UNC
IO_InFlow_Temp	na	degrees C	na	0.000	10.000	
53.000	63.000					
IO_OutFlow_Temp	na	degrees C	na	0.000	10.000	
62.000	72.000					
IO_Riser_R_Temp	na	degrees C	na	0.000	10.000	
54.000	64.000					
IO_Riser_L_Temp	na	degrees C	na	0.000	10.000	
53.000	63.000					
IO_12V	na	Volts	na	0.000	0.000	32.130
	32.130					
IO_12V_Curr	na	Amps	na	0.000	0.000	63.750
	63.750					
IO_STDBY_12V	na	Volts	na	0.000	0.000	32.130
	32.130					
IO_STDBY_12V_Cur	na	Amps	na	na	na	3.188
	3.188					
IOfan1_Present	0x0	discrete	Absent	na	na	
na	na					
IOfan1_Fault	na	discrete	na	na	na	na
na						
IOfan1_F1_Speed	na	RPM	na	1950.000	2040.000	
na	na					
IOfan1_F2_Speed	na	RPM	na	1950.000	2040.000	
na	na					
IOfan2_Present	0x0	discrete	Absent	na	na	
na	na					
IOfan2_Fault	na	discrete	na	na	na	na
na						
IOfan2_F1_Speed	na	RPM	na	1950.000	2040.000	
na	na					
IOfan2_F2_Speed	na	RPM	na	1950.000	2040.000	

na		na						
IOfan3_Present		0x0		discrete		Absent		na
na		na						
IOfan3_Fault		na		discrete		na		na
IOfan3_F1_Speed		na		RPM		na		1950.000
								2040.000
na		na						
IOfan3_F2_Speed		na		RPM		na		1950.000
								2040.000
na		na						