



不支持PPR的AFF / FAS系统出现不可更正的内存错误

https://kb-cn.netapp.com/on-prem/ontap/OHW/OHW-KBs/Uncorrectable_memory_error_on_an_AFF_F...

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适用场景

- ONTAP 9
- 平台：
 - AFF A320
 - AFF A300/FAS8200
 - AFF A250 / AFF C250 / FAS500f
 - AFF A220 / AFF C190 / FAS27x0
 - AFF A200/FAS26x0
 - AFF / FAS80
 - FAS22x0/FAS25x0
 - FAS32x0/FAS62x0

问题描述

- 控制器发生故障并重新启动、并显示DIMM错误：

```
PANIC: ECC error at DIMM-18: 2C-0F-2007-2664E6BE,ADDR
0x180a048b40, (Node(1), Memory controller(1), CH(3), DIMM(0), Rank(0), Bank
Group(1), Bank(0x0), Row(0xb8b1), Col(0x2f8), Uncorrectable Machine Check
Error at CPU21.
```

- EMS日志：

```
cf_hwassist: cf.hwassist.takeoverTrapRecv:debug]: hw_assist: Received
takeover hw_assist alert from partner(node02), system_down because
dimm_uecc_error.
```

- event all log：

```
ECC error at DIMM-2: 2C-0F-1910-20FE7F16,ADDR 0x27fce6000, (Node(0), Memory
controller(0), CH(1), DIMM(0), Rank(0), Bank Group(0), Bank(0x0),
Row(0x0), Col(0x0)), devtag(0x3f), correrr(0x0) Uncorrectable Machine
Check Error at CPU9. BDWL_HA0 Error:
STATUS<0xfe0000000010091> (Val, OverF, UnCor, Enable, MiscV, AddrV, PCC, CorrSts(0),
1,
Read), ErrCode(0x91)), MISC<0x00000000406aea86> (HaDbBank(0), PE(0), ReqOpcode(0x2
Requesting SP to power cycle the filer to attempt to clear DRAM UECC

[IPMI Event.critical]: DIMM UECC Fatal Error detected by Storage OS
[Trap Event.critical]: hwassist dimm_uecc_error (32)
[Trap Event.critical]: SNMP dimm_uecc_error (32)
[IPMI Event.critical]: System power cycle
[IPMI.notice]: 08e8 | 02 | EVT: 015000ad | P3V3 | Assertion Event, "Lower
Non-critical going low " | Reading: 0.000 | Threshold: 3.027
[IPMI.notice]: 08e9 | 02 | EVT: 015200a9 | P3V3 | Assertion Event, "Lower
Critical going low " | Reading: 0.000 | Threshold: 2.957
[IPMI.notice]: 08ea | 02 | EVT: 0300ffff | Power_Good | Assertion Event,
"State Deasserted"
[IPMI.notice]: 08eb | 02 | EVT: 015006af | P12V | Assertion Event, "Lower
Non-critical going low " | Reading: 0.372 | Threshold: 10.850
[IPMI.notice]: 08ec | 02 | EVT: 015206aa | P12V | Assertion Event, "Lower
Critical going low " | Reading: 0.372 | Threshold: 10.540
[BMC.critical]: Filer Reboots
```

