



CHW-2478：由于 mSATA 设备故障，AFF 或 FAS 存储系统无法启动

<https://kb-cn-stage.netapp.com/on-prem/ontap/OHW/OHW-Issues/CHW-2478>

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问题描述

- 以下存储系统会经历控制器中断并无法启动：
 - AFF C190、AFF A150、AFF A200、AFF A220、AFF A300、AFF A700
 - FAS2620、FAS2650、FAS2720、FAS2750、FAS2820、FAS8200、FAS9000
- 节点因以下原因而关闭：

```
PANIC: thread (xxx) on cpu hung for 4001 milliseconds in process xxx Panic string:
g_vfs_done(): rootfs.uzip read error - suspect boot device
Panic string: Process mgwd unresponsive for 620 seconds in process nodewatchdog
Could not load fat://boot0/X86_64/freebsd/image1/kernel:Device not found
ERROR: Error booting OS on: 'boot0' file: fat://boot0/X86_64/freebsd/image1/kernel
(boot0,fat)
```

- 自动引导失败，并显示以下错误消息：

```
BIOS Version: 11.7
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Initializing System Memory ...
```

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```
Loading Device Drivers ...
Configuring Devices ...
CPU = 1 Processor(s) Detected.
Intel(R) Xeon(R) CPU D-1557 @ 1.50GHz (CPU 0)
CPUID: 0x00050664. Cores per Processor = 12
32768 MB System RAM Installed.
Boot Loader version 6.0.8
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*ERROR: Failure to build endpoint environment variables. Autoboot will be disabled.*
```

- BMC 事件日志指示以下错误：

```
[Controller.notice]: Appliance user command panic.
[IPMI.notice]: 001f | 02 | EVT: 6f406fff | Sensor 255 | Assertion Event, "Storage OS
stop/shutdown" [BMC.critical]: Filer Reboots
[IPMI.notice]: (PUA) Enable power to all PCIe slots
[IPMI.notice]: (PUA) Enable power to all PCIe on board device
[IPMI.notice]: (PUA) P_stat :slots=0x0,onboard_devs=0x0,final
[IPMI.notice]: (PUA) Power status of all PCIe slots unchanged
[IPMI.notice]: 0023 | 02 | EVT: 6fc203ff | System_FW_Status | Assertion Event,
"Memory Initialization done"
*[SysFW.warning]: Error loading ENV variables, creating defaults*
*[SysFW.warning]: Failed to read FW image on boot media: Device not found. Auto up*
[SysFW.warning]: date skipped
[IPMI.notice]: 0024 | 02 | EVT: 6fc220ff | System_FW_Status | Assertion Event,
"Bootloader is running"
[BMC.critical]: Heartbeat stopped
```