



## Uncorrectable Machine Check Error on AFF A250 following motherboard replacement

[https://kb-stage.netapp.com/on-prem/ontap/OHW/OHW-KBs/Uncorrectable\\_Machine\\_Check\\_Error\\_on...](https://kb-stage.netapp.com/on-prem/ontap/OHW/OHW-KBs/Uncorrectable_Machine_Check_Error_on...)

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### Applies to

AFF A250

### Issue

- After motherboard replacement, node continues to panic shortly after boot with similar uncorrectable machine check error panics:

```
PANIC : Uncorrectable Machine Check Error at CPU9. SKL_IIO Error:
STATUS<0xbb8000000000e0b> (VALID, UC, EN, MISCV, PCC, S, AR, CORR_ERR_STATUS(0), CORR
Machine Check from
device(s):RPT(100,0,0):ErrSrcID(CorrSrc(0x66a0),UCorrSrc(0x66a0)), PLX
PCIE 9797 switch on Controller, Br[9797](102,20,0): Link down. , .
```

```
PANIC : Uncorrectable Machine Check Error at CPU7. SKL_IIO Error:
STATUS<0xbb8000000000e0b> (VALID, UC, EN, MISCV, PCC, S, AR, CORR_ERR_STATUS(0), CORR
Machine Check from
device(s):RPT(100,0,0):ErrSrcID(CorrSrc(0x66a0),UCorrSrc(0x66a8)), PLX
PCIE 9797 switch on Controller, Mellanox CX5 Ethernet in slot 2 on
Controller, Mellanox CX5 Ethernet in slot 2 on Controller, PLX PCIE 9797
switch on Controller, Br[9797](102,21,0): Link down. , .
```

- Console logs may report the following during boot:

```
Device Bus:76 Dev:0 Fun:0 (slot 2) failed to train at max link speed/width
-Expected GEN3, actual GEN1
-Expected x8, actual x8
```

```
Uncorrectable error detected at PCIE:Bus:100 Dev:0 Fun:0 for 1 time(s)!!!!
```

- BMC event logs indicate bus correctable errors leading to bus uncorrectable errors:

```
f1 | OEM record ee | Device Bus: 118 Dev: 0 Fun: 0 (slot 2) Failed to
train at max link speed/width, retraining cycle 0
- Expected GEN3, actual GEN1
- Expected x8, actual x8
```

```
...
```

```
101 | 01/08/2023 | 18:20:06 | Critical Interrupt #0x31 | Bus Correctable
error | Asserted
102 | 01/08/2023 | 18:20:06 | Critical Interrupt #0x31 | Bus Correctable
error | Asserted
103 | 01/08/2023 | 18:20:06 | Critical Interrupt #0x31 | Bus Correctable
error | Asserted
104 | 01/08/2023 | 18:20:06 | Critical Interrupt #0x31 | Bus Correctable
error | Asserted
```

```
...
```

```
13b | OEM record ee | Device Bus: 118 Dev: 0 Fun: 0 (slot 2) Failed to
train at max link speed/width, retraining cycle 0
- Expected GEN3, actual GEN1
- Expected x8, actual x8
```

```
...
```

```
149 | 01/08/2023 | 17:14:03 | Critical Interrupt #0x31 | Bus Correctable
error | Asserted
14a | 01/08/2023 | 17:14:03 | Critical Interrupt #0x31 | Bus Uncorrectable
error | Asserted
```