

知 ACG1000-SE-PWR 开机无法启动问题排查

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ACG1000-SE-PWR 设备刚刚到货，开机发现无法启动。

通过console 打印信息如下：

```
Using DRAM size from environment: 2048 MBytes
CUST_NB02 board revision major:1, minor:0, serial #: unknown
OCTEON CN7020-SCP pass 1.2, Core clock: 800 MHz, IO clock: 400 MHz, DDR clock: 533 MHz (10
66 Mhz DDR)
Base DRAM address used by u-boot: 0x8f000000, size: 0x1000000
DRAM: 2 GiB
Clearing DRAM..... done
Octeon MMC/SD0: 1
Flash boot bus region not enabled, skipping NOR flash config
PCIe: Port 0 not in PCIe mode, skipping
PCIe: Port 1 not in PCIe mode, skipping
PCIe: Port 2 not in PCIe mode, skipping
PCI console init succeeded, 1 consoles, 1024 bytes each
POE 1 exist!
POE 2 exist!
Press CTRL C to enter menuboot£º 0
reading vmlinux.64
.....
70501584 bytes read in 11872 ms (5.7 MiB/s)
argv[2]: console=ttyS0,9600
argv[3]: numcores=2
Allocating memory for ELF segment: addr: 0xfffffff80100000 (adjusted to: 0x1000000), size 0x448c0c
0
## Loading big-endian Linux kernel with entry point: 0xfffffff80673b00 ...
Bootloader: Done loading app on coremask: 0x3
Starting cores:
0x3
/sbin/rc starting
Mounting file systems
Setting up loopback
log disk part is sda1
mount: mounting /dev/sda1 on /disk failed: Invalid argument
watchdog init ok.
sh: locale: not found
WARNING: enabling "trust" authentication for local connections
You can change this by editing pg_hba.conf or using the option -A, or
--auth-local and --auth-host, the next time you run initdb.
ge0 MAC address is : 50:da:00:e5:16:01
ge1 MAC address is : 50:da:00:e5:16:02
ge2 MAC address is : 50:da:00:e5:16:03
ge3 MAC address is : 50:da:00:e5:16:04
ge4 MAC address is : 50:da:00:e5:16:05
ge5 MAC address is : 50:da:00:e5:16:06
ge6 MAC address is : 50:da:00:e5:16:07
ge7 MAC address is : 50:da:00:e5:16:08
ge8 MAC address is : 50:da:00:e5:16:09
ge9 MAC address is : 50:da:00:e5:16:0a
ge10 MAC address is : 50:da:00:e5:16:0b
ge11 MAC address is : 50:da:00:e5:16:0c
ge12 MAC address is : 50:da:00:e5:16:0d
ge13 MAC address is : 50:da:00:e5:16:0e
CVMX_SHARED: 0x10b30000-0x11070000
Active coremask = 0x3
Interface 0 has 4 ports (QSGMII)
Interface 1 has 4 ports (QSGMII)
```

```
Interface 2 has 4 ports (NPI)
Interface 3 has 4 ports (LOOP)
Interface 4 has 1 ports (AGL)
Page size 16384 bytes, memory regions:
0: 0x8000000004920000 -> 0x800000000ffc000 (191741952 bytes)
1: 0x8000000020000000 -> 0x800000005f4e0000 (1062076416 bytes)
Buddy initialized
Slub initialized
nf_contrack (size 456 buckets 131072 max 2000000)
Connection to database failed: FATAL: database "t_log" does not exist
umount: can't forcibly umount /disk: Invalid argument
The system is going down NOW!
Sent SIGTERM to all processes
Sent SIGKILL to all processes
Requesting system reboot
[ 120.254963] reboot: Restarting system
OCTEON eMMC stage 1 bootloader
Partition: 1, start: 0x0000000000004FC0, size: 0x0000000000032040
Reading 456376 bytes.
.....
.....
.....
.....
..... Done.
Loaded OCTBOOT2BIN, size: 0x00000000006F6B8
Branching to stage 2 at: 0xFFFFFFFF81004000
Warning: Board descriptor tuple not found in eeprom, using defaults
CUST_NB02 board revision major:1, minor:0, serial #:
OCTEON CN7020-SCP pass 1.2, Core clock: 800 MHz, IO clock: 400 MHz, DDR clock: 533 MHz (10
66 Mhz DDR)
Base DRAM address used by u-boot: 0x8f804000, size: 0x7fc000
DRAM: 2 GiB
Clearing DRAM..... done
Using default environment
MMC: Octeon MMC/SD0: 1
reading u-boot-octeon_cust_nb01.bin
```

- 1, 开始分析可能是版本损坏, 建议开机按CTL + B 进入menuboot 然后从新来进行软件升级
- 2, 如果menuboot 升级无法解决, 可以判断是硬件故障

按照第一种办法进行测试发现无法进入bootmenu;

后来开始分析console打印信息,

```
The system is going down NOW!
```

```
    Sent SIGTERM to all processes
```

```
    Sent SIGKILL to all processes
```

```
    Requesting system reboot
```

是因为面板的reset 按钮卡主导致的不断重启, 无法启动, 现场将该按钮弄好后设备可以启动。

acg1000 真正的硬件问题在console 输出时一般会打印内存或者其他告警信息, 像此局点这样的可以考虑是面板的

reset 按钮卡住导致的。