



UIS E0716P03虚拟机无法启动问题

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组网及说明

UIS E0716P03

问题描述

UIS E0716P03平台上1台虚拟机无法拉起，具体操作是将虚拟机内存调小后操作系统无法启动，将内存改回原大小依然无法启动，如图。

```
-- Logs begin at Thu 2021-01-20 12:37:54 UTC, end at Thu 2021-01-20 12:40:10 UTC. --
Jan 20 12:37:54 Hikvision03 systemd-journald[157]: Systemd Journal is using 0.00 (max allowed 1.5G, trying to leave 2.5G free of
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Initializing cgroup subsys cgroup
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Initializing cgroup subsys cpuset
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Initializing cgroup subsys memcg
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Initializing cgroup subsys blkio
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Initializing cgroup subsys hugetlb
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Linux version 3.10.0-957.12.2.el7.x86_64 (ChangChang@redhat.com) (gcc version 4.8.5 20150203 (Red
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Command line: BOOT_IMAGE=/vmlinuz-3.10.0-957.12.2.el7.x86_64 root=/dev/mapper/centos_hh101
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] KERNEL supported cpus:
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Intel Celeron
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] ARM920T
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] ARMv7l
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A9
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A5
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A7
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A53
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A55
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A72
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A73
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A75
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A76
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A77
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A78
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A79
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A80
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A81
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A82
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A83
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A84
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A85
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A86
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A87
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A88
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A89
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A90
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A91
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A92
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A93
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A94
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A95
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A96
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A97
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A98
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A99
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A100
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A101
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A102
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A103
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A104
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A105
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A106
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A107
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A108
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A109
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A110
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A111
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A112
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A113
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A114
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A115
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A116
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A117
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A118
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A119
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A120
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A121
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A122
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A123
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A124
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A125
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A126
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A127
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A128
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A129
Jan 20 12:37:54 Hikvision03 kernel: [ 0.000000] Cortex A130
```

本案例的特殊之处是这台虚拟机只有一块盘（系统盘），且这块盘以块设备的方式挂载给虚拟机使用，修复方法可供参考。

过程分析

从日志判断系统损坏，需要修复。由于这台虚拟机只有一块盘，且这块盘以块设备的方式挂载给虚拟机使用，因此要想修复只能给虚拟机先挂载一个新的卷，将原卷数据dd拷贝到新卷后，再尝试修复。

从日志看到用户有关闭电源操作，不规范操作会损坏磁盘。

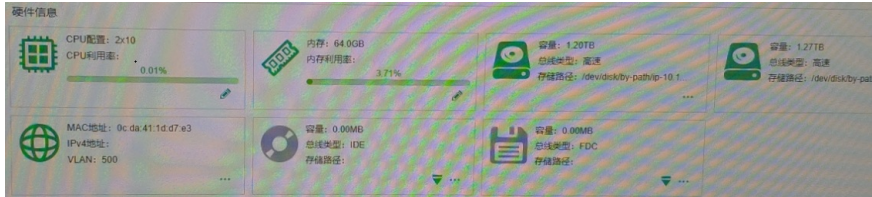
dd命令：`dd if=lun1 of=lun2`，例如`dd if=/dev/sda of=/root/sda.img` 这个命令表示将 sda 盘备份到指定文件 `/root/sda.img` 中去。

参数说明：

if=文件名：指定输入文件名或者设备名，如果省略“if=文件名”，则表示从标准输入读取。

of=文件名：指定输出文件名或者设备名，如果省略“of=文件名”，则表示写到标准输出。

注意：dd命令有风险，务必对命令使用非常熟悉、或是经过确认命令无误再执行，否则务必联系400进行确认！



解决方法

dd完成后修复原卷，这一步建议联系400处理，修复后虚拟机可以正常拉起，此时请验证用户业务，如果业务无法拉起请协调业务侧人员处理。

