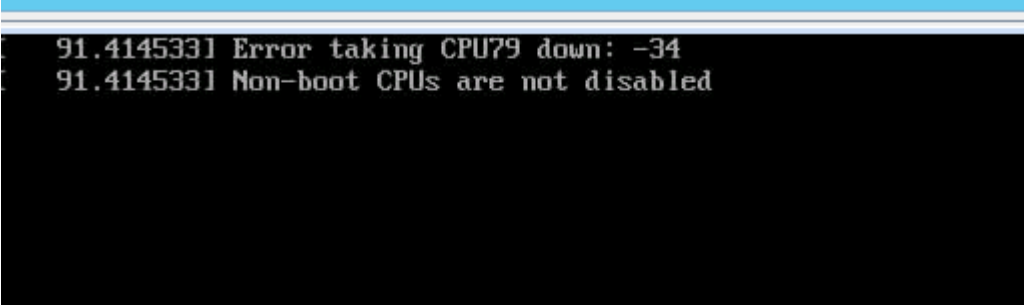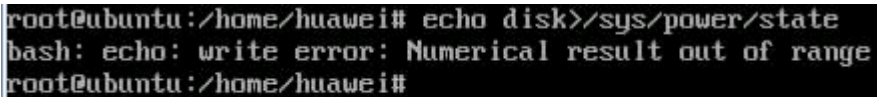To test S4 with
#echo disk>/sys/power/state
The error as below, CPU is last of system.
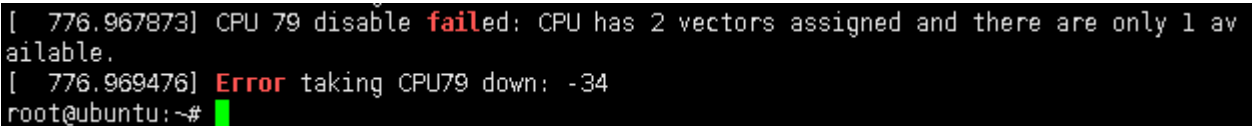
```
91.414533] Error taking CPU79 down: -34
91.414533] Non-boot CPUs are not disabled
```

After 10 seconds, the black screen was come back and show as below error:

```
root@ubuntu:/home/huawei# echo disk>/sys/power/state
bash: echo: write error: Numerical result out of range
root@ubuntu:/home/huawei#
```

The below error was found by dmes:

```
[  776.967873] CPU 79 disable failed: CPU has 2 vectors assigned and there are only 1 available.
[  776.969476] Error taking CPU79 down: -34
root@ubuntu:~#
```

On the same machine, test with different OS , some can works while other are no. Below are screenshot of them.

S4 works well:

S4 failed:

```
607  [  278.395847] Broke affinity for irq 28
608  [  278.395851] Broke affinity for irq 29
609  [  278.395856] Broke affinity for irq 32
610  [  278.395860] Broke affinity for irq 33
611  [  278.395865] Broke affinity for irq 34
612  [  278.395870] Broke affinity for irq 35
613  [  278.395877] Broke affinity for irq 71
614  [  278.395902] Broke affinity for irq 231
615  [  278.395920] Broke affinity for irq 339
616  [  278.395939] Broke affinity for irq 429
617  [  278.397040] smpboot: CPU 77 is now offline
618  [  278.411789] Broke affinity for irq 24
619  [  278.411794] Broke affinity for irq 25
620  [  278.411797] Broke affinity for irq 26
621  [  278.411802] Broke affinity for irq 28
622  [  278.411806] Broke affinity for irq 29
623  [  278.411811] Broke affinity for irq 32
624  [  278.411815] Broke affinity for irq 33
625  [  278.411819] Broke affinity for irq 34
626  [  278.411824] Broke affinity for irq 35
627  [  278.411831] Broke affinity for irq 71
628  [  278.411857] Broke affinity for irq 231
629  [  278.411875] Broke affinity for irq 339
630  [  278.411893] Broke affinity for irq 429
631  [  278.412993] smpboot: CPU 78 is now offline
632  [  278.428093] CPU 79 disable failed: CPU has 2 vectors assigned and there are only 1 available.
633  [  278.429630] Error taking CPU79 down: -34
634  [  278.429753] Non-boot CPUs are not disabled
635  [  278.429882] Enabling non-boot CPUs ...
636  [  278.449325] x86: Booting SMP configuration:
637  [  278.449329] smpboot: Booting Node 0 Processor 1 APIC 0x2
638  [  278.460400]  cache: parent cpu1 should not be sleeping
639  [  278.460913] CPU1 is up
640  [  278.481645] smpboot: Booting Node 0 Processor 2 APIC 0x4
641  [  278.493242]  cache: parent cpu2 should not be sleeping
642  [  278.493705] CPU2 is up
643  [  278.513708] smpboot: Booting Node 0 Processor 3 APIC 0x6
644  [  278.525078]  cache: parent cpu3 should not be sleeping
645  [  278.525541] CPU3 is up
646  [  278.545723] smpboot: Booting Node 0 Processor 4 APIC 0x8
647  [  278.557236]  cache: parent cpu4 should not be sleeping
648  [  278.557667] CPU4 is up
649  [  278.577769] smpboot: Booting Node 0 Processor 5 APIC 0x10
650  [  278.589480]  cache: parent cpu5 should not be sleeping
651  [  278.589953] CPU5 is up
652  [  278.609868] smpboot: Booting Node 0 Processor 6 APIC 0x12
653  [  278.621370]  cache: parent cpu6 should not be sleeping
654  [  278.621837] CPU6 is up
```

A

B