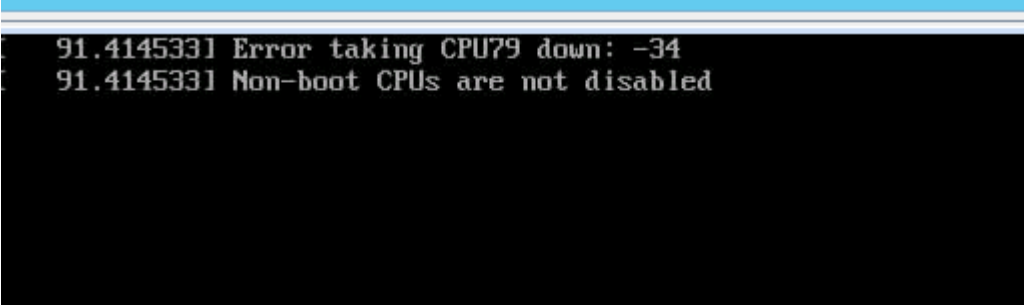
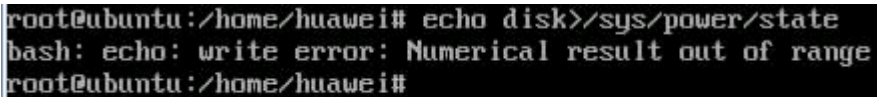


To test S4 with
#echo disk>/sys/power/state
The error as below, CPU is last of system.



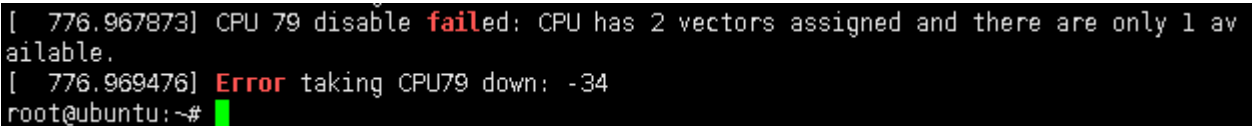
```
91.4145331 Error taking CPU79 down: -34
91.4145331 Non-boot CPUs are not disabled
```

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:

```
172 [ 110.030435] smpboot: CPU 71 is now offline
173 [ 110.034106] kvm: disabling virtualization on CPU72
174 [ 110.134513] smpboot: CPU 72 is now offline
175 [ 110.138217] kvm: disabling virtualization on CPU73
176 [ 110.238596] smpboot: CPU 73 is now offline
177 [ 110.242201] kvm: disabling virtualization on CPU74
178 [ 110.342668] smpboot: CPU 74 is now offline
179 [ 110.345883] kvm: disabling virtualization on CPU75
180 [ 110.446759] smpboot: CPU 75 is now offline
181 [ 110.450244] kvm: disabling virtualization on CPU76
182 [ 110.450253] smpboot: CPU 76 is now offline
183 [ 110.453477] kvm: disabling virtualization on CPU77
184 [ 110.554837] smpboot: CPU 77 is now offline
185 [ 110.558316] kvm: disabling virtualization on CPU78
186 [ 110.658916] smpboot: CPU 78 is now offline
187 [ 110.661233] Broke affinity for irq 8
188 [ 110.661238] Broke affinity for irq 9
189 [ 110.662335] kvm: disabling virtualization on CPU79
190 [ 110.662353] smpboot: CPU 79 is now offline
191 [ 110.663526] PM: Creating hibernation image:
192 [ 113.061100] PM: Need to copy 610547 pages
193 [ 113.061105] PM: Normal pages needed: 610547 + 1024, available pages: 15941771
194 [ 110.668775] PM: Restoring platform NVS memory
195 [ 110.771505] Enabling non-boot CPUs ...
196 [ 110.771567] x86: Booting SMP configuration:
197 [ 110.771568] smpboot: Booting Node 0 Processor 1 APIC 0x2
198 [ 110.785726] kvm: enabling virtualization on CPU1
199 [ 110.788592] CPU1 is up
200 [ 110.788615] smpboot: Booting Node 0 Processor 2 APIC 0x4
201 [ 110.801516] kvm: enabling virtualization on CPU2
202 [ 110.804290] CPU2 is up
203 [ 110.804316] smpboot: Booting Node 0 Processor 3 APIC 0x6
204 [ 110.817245] kvm: enabling virtualization on CPU3
205 [ 110.820044] CPU3 is up
206 [ 110.820070] smpboot: Booting Node 0 Processor 4 APIC 0x8
207 [ 110.833149] kvm: enabling virtualization on CPU4
208 [ 110.835896] CPU4 is up
209 [ 110.835919] smpboot: Booting Node 0 Processor 5 APIC 0x10
210 [ 110.849000] kvm: enabling virtualization on CPU5
211 [ 110.851776] CPU5 is up
212 [ 110.851803] smpboot: Booting Node 0 Processor 6 APIC 0x12
213 [ 110.864720] kvm: enabling virtualization on CPU6
214 [ 110.867455] CPU6 is up
215 [ 110.867479] smpboot: Booting Node 0 Processor 7 APIC 0x14
```

S4 failed:

```
ubuntu@ubuntu: ~$ cat /var/log/syslog
[ 278.395847] Broke affinity for irq 28
[ 278.395851] Broke affinity for irq 29
[ 278.395856] Broke affinity for irq 32
[ 278.395860] Broke affinity for irq 33
[ 278.395865] Broke affinity for irq 34
[ 278.395870] Broke affinity for irq 35
[ 278.395877] Broke affinity for irq 71
[ 278.395902] Broke affinity for irq 231
[ 278.395920] Broke affinity for irq 339
[ 278.395939] Broke affinity for irq 429
[ 278.397040] smpboot: CPU 77 is now offline
[ 278.411789] Broke affinity for irq 24
[ 278.411794] Broke affinity for irq 25
[ 278.411797] Broke affinity for irq 26
[ 278.411802] Broke affinity for irq 28
[ 278.411806] Broke affinity for irq 29
[ 278.411811] Broke affinity for irq 32
[ 278.411815] Broke affinity for irq 33
[ 278.411819] Broke affinity for irq 34
[ 278.411824] Broke affinity for irq 35
[ 278.411831] Broke affinity for irq 71
[ 278.411857] Broke affinity for irq 231
[ 278.411875] Broke affinity for irq 339
[ 278.411893] Broke affinity for irq 429
[ 278.412993] smpboot: CPU 78 is now offline
[ 278.428093] CPU 79 disable failed: CPU has 2 vectors assigned and there are only 1 available.
[ 278.429630] Error taking CPU79 down: -34
[ 278.429753] Non-boot CPUs are not disabled
[ 278.429882] Enabling non-boot CPUs ...
[ 278.449325] x86: Booting SMP configuration:
[ 278.449329] smpboot: Booting Node 0 Processor 1 APIC 0x2
[ 278.460400] cache: parent cpu1 should not be sleeping
[ 278.460913] CPU1 is up
[ 278.481645] smpboot: Booting Node 0 Processor 2 APIC 0x4
[ 278.493242] cache: parent cpu2 should not be sleeping
[ 278.493705] CPU2 is up
[ 278.513708] smpboot: Booting Node 0 Processor 3 APIC 0x6
[ 278.525078] cache: parent cpu3 should not be sleeping
[ 278.525541] CPU3 is up
[ 278.545723] smpboot: Booting Node 0 Processor 4 APIC 0x8
[ 278.557236] cache: parent cpu4 should not be sleeping
[ 278.557667] CPU4 is up
[ 278.577769] smpboot: Booting Node 0 Processor 5 APIC 0x10
[ 278.589480] cache: parent cpu5 should not be sleeping
[ 278.589953] CPU5 is up
[ 278.609868] smpboot: Booting Node 0 Processor 6 APIC 0x12
[ 278.621370] cache: parent cpu6 should not be sleeping
[ 278.621837] CPU6 is up
```