## sysfs. txt

## Supporting multiple CPU idle levels in kernel cpuidle sysfs

System global cpuidle related information and tunables are under /sys/devices/system/cpu/cpuidle

The current interfaces in this directory has self-explanatory names:

- \* current\_driver
- \* current\_governor\_ro

With cpuidle sysfs switch boot option (meant for developer testing) following objects are visible instead.

- \* current driver
- \* available governors

-r--r-- 1 root root 4096 Feb

-r--r-- 1 root root 4096 Feb

total 0

/sys/devices/system/cpu/cpu0/cpuidle/state2:

-r--r-- 1 root root 4096 Feb 8 10:42 desc

\* current governor

In this case users can switch the governor at run time by writing to current governor.

Per logical CPU specific cpuidle information are under /sys/devices/system/cpu/cpuX/cpuidle for each online cpu X

```
# 1s -1R /sys/devices/system/cpu/cpu0/cpuidle/
/sys/devices/system/cpu/cpu0/cpuidle/:
total 0
drwxr-xr-x 2 root root 0 Feb 8 10:42 state0
drwxr-xr-x 2 root root 0 Feb 8 10:42 state1
drwxr-xr-x 2 root root 0 Feb 8 10:42 state2
drwxr-xr-x 2 root root 0 Feb 8 10:42 state3
/sys/devices/system/cpu/cpu0/cpuidle/state0:
total 0
-r--r-- 1 root root 4096 Feb
                                8 10:42 desc
-r--r-- 1 root root 4096 Feb
                               8 10:42 latency
-r--r-- 1 root root 4096 Feb
                               8 10:42 name
-r--r-- 1 root root 4096 Feb
                               8 10:42 power
-r--r-- 1 root root 4096 Feb
                               8 10:42 time
-r--r-- 1 root root 4096 Feb
                               8 10:42 usage
/sys/devices/system/cpu/cpu0/cpuidle/statel:
total 0
-r--r-- 1 root root 4096 Feb
                               8 10:42 desc
-r--r-- 1 root root 4096 Feb
                               8 10:42 latency
-r--r-- 1 root root 4096 Feb
                               8 10:42 name
-r--r-- 1 root root 4096 Feb
                               8 10:42 power
```

8 10:42 time

8 10:42 usage

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```
sysfs. txt
                              8 10:42 latency
-r--r-- 1 root root 4096 Feb
                               8 10:42 name
-r--r-- 1 root root 4096 Feb
                               8 10:42 power
-r--r-- 1 root root 4096 Feb
-r--r-- 1 root root 4096 Feb
                              8 10:42 time
-r--r-- 1 root root 4096 Feb 8 10:42 usage
/sys/devices/system/cpu/cpu0/cpuidle/state3:
total 0
                               8 10:42 desc
-r--r-- 1 root root 4096 Feb
-r--r-- 1 root root 4096 Feb
                               8 10:42 latency
-r--r-- 1 root root 4096 Feb
                              8 10:42 name
-r--r-- 1 root root 4096 Feb
                              8 10:42 power
-r--r-- 1 root root 4096 Feb 8 10:42 time
-r--r-- 1 root root 4096 Feb 8 10:42 usage
```

```
* desc: Small description about the idle state (string)
```

- \* latency: Latency to exit out of this idle state (in microseconds)
- \* name : Name of the idle state (string)
- \* power : Power consumed while in this idle state (in milliwatts)
- \* time : Total time spent in this idle state (in microseconds)
- \* usage : Number of times this state was entered (count)