How to use

- 1. Run make to compile the kernel module.
- 2. Run sudo insmod task_list.ko to insert the module.
- 3. Run lsmod | grep task_list to see if the module is loaded.
- 4. Run dmesg to see the output.
- 5. Run sudo rmmod task_list to remove the module.
- 6. Run dmesg to see the output.

Description

The kernel module prints the process information of all the tasks in the system. The information includes the command name, the process ID and the state of the process.

The order of the tasks is determined by the process ID.

Screenshot

```
command = [swapper/o], ptd = [0], state = [0]
module loaded
command = [systemd], pid = [1], state = [83]
command = [rcu_pp], pid = [3], state = [73]
command = [rcu_par_pp], pid = [4], state = [73]
command = [slub_flushwq], pid = [5], state = [73]
command = [ntns], pid = [6], state = [73]
command = [mm_percpu_wq], pid = [10], state = [73]
command = [rcu_tasks_rude_], pid = [10], state = [83]
command = [rcu_tasks_rude_], pid = [12], state = [83]
command = [rcu_tasks_trace], pid = [12], state = [83]
command = [rcu_sched], pid = [14], state = [83]
command = [rcu_sched], pid = [14], state = [83]
command = [idle_inject/0], pid = [15], state = [83]
command = [idle_inject/0], pid = [16], state = [83]
command = [cpuhp/0], pid = [18], state = [83]
command = [cpuhp/0], pid = [19], state = [83]
command = [kworker/1:0H], pid = [20], state = [83]
command = [kworker/1:0H], pid = [24], state = [73]
command = [kworker/1:0H], pid = [24], state = [83]
command = [kworker/1:0H], pid = [25], state = [83]
command = [kuditd], pid = [27], state = [83]
command = [kuditd], pid = [31], state = [83]
command = [kungtaskd], pid = [31], state = [83]
command = [kungtaskd], pid = [31], state = [83]
command = [ksompactd0], pid = [31], state = [73]
command = [kingpackd], pid = [81], state = [73]
command = [kingpackd], pid = [81], state = [73]
command = [kingpackd], pid = [83], state = [73]
command = [kingpackd], pid = [83], state = [73]
command = [kworker/1:1H], pid = [81], state = [73]
command = [compactd0], pid = [86], state = [73]
command = [kworker/1:1H], pid = [91], state = [83]
command = [kylockd], pid = [86], state = [73]
command = [kworker/1:1H], pid = [91], state = [83]
command = [korker/1:1H], pid = [91], state = [83]
command = [korker/1:1H], pid = [91], state = [83]
command = [korker/1:1H], pid = [91], state = [83]
command = [korker/1:1H], pid = [91], state = [83]
command = [korker/1:1H], pid = [91], state = [83]
command = [korker/1:1H], pid = [91], state = [83]
command = [korker/1:1H], pid = [91], state = [83]
command = [korker/1:1H],
                                                                                                                   apper/0], ptu = [0], State :
                                                      module loaded
2702.292098
                                                                                                   [irq/27-pciehp], pid =
[irq/28-pciehp], pid =
                                                                                                                                                                                                           [100], state = [83]
[101], state = [83]
                                                      command =
                                                      command =
                                                                                                    [irq/29-pciehp], pid =
                                                                                                                                                                                                           [102], state = [83]
                                                      command =
                                                                                                                                                                                                           [103],
                                                      command =
                                                                                                    [irq/30-pciehp], pid
                                                                                                                                                                                                                                        state = [83]
                                                                                                    [irq/31-pciehp], pid
                                                                                                                                                                                                            [104],
                                                       command =
                                                                                                                                                                                                                                         state =
                                                                                                    [irq/32-pciehp], pid
                                                                                                                                                                                                            [105],
                                                                                                                                                                                                                                                                            [83]
                                                       command =
                                                                                                                                                                                                                                         state =
                                                      command =
                                                                                                    [irq/33-pciehp], pid
                                                                                                                                                                                                           [106], state = [83]
                                                      command =
                                                                                                                                                                                                                                       state = [83]
state = [83]
                                                                                                    [irq/34-pciehp], pid =
                                                                                                                                                                                                            [107],
                                                      command =
                                                                                                   [irq/35-pciehp], pid =
                                                                                                                                                                                                           [108],
                                                      command =
                                                                                                    [irq/36-pciehp], pid =
                                                                                                                                                                                                            [109],
                                                                                                                                                                                                                                          state =
                                                                                                                                                                                                                                                                              [83]
                                                      command = [irq/37-pciehp], pid =
                                                                                                                                                                                                           [110],
                                                                                                                                                                                                                                          state =
```

Figure 1: Screenshot