

# Report

## PID 4996

```
ubuntu      4996  0.0  0.2 19084 10968 ?        Ss   20:25   0:00 /lib/systemd
```

```
Error inserting module: Success
ubuntu@ubuntu:~/Desktop/proc$ sudo ./get_proc_info /home/ubuntu/Desktop/proc/pr
oc_info_module.ko -pid 4996
Name: systemd
PID: 4996
PPID: 1
UID: 999
State: S
Path: /proc/4996
```

## PID 8526

```
ubuntu      8526  0.0  1.4 2408108 56448 ?        Sl   20:58   0:00 /snap/firefo
```

```
ubuntu@ubuntu:~/Desktop/proc$ sudo ./get_proc_info /home/ubuntu/Desktop/proc/pr
oc_info_module.ko -pid 8526
Name: Web Content
PID: 8526
PPID: 7404
UID: 999
State: S
Path: /proc/8526
ubuntu@ubuntu:~/Desktop/proc$
```

## PID 1149

```
message+    1149  0.0  0.1 11012  5676 ?        Ss   20:22   0:00 @dbus-daemon
```

```
ubuntu@ubuntu:~/Desktop/proc$ sudo ./get_proc_info /home/ubuntu/Desktop/proc/pr
oc_info_module.ko -pid 1149
Name: dbus-daemon
PID: 1149
PPID: 1
UID: 102
State: S
Path: /proc/1149
```

## PID 1306

```
kernoops      1306  0.0  0.0  13080  2376 ?        Ss   20:22   0:00 /usr/sbin/ke
```

```
ubuntu@ubuntu:~/Desktop/proc$ sudo ./get_proc_info /home/ubuntu/Desktop/proc/pr  
oc_info_module.ko -pid 1306  
Name: kerneloops  
PID: 1306  
PPID: 1  
UID: 113  
State: S  
Path: /proc/1306
```

## PID 1118

```
systemd+      1118  0.0  0.1  14828  4100 ?        Ss   20:22   0:03 /lib/systemd
```

```
ubuntu@ubuntu:~/Desktop/proc$ sudo ./get_proc_info /home/ubuntu/Desktop/proc/pr  
oc_info_module.ko -pid 1118  
Name: systemd-oomd  
PID: 1118  
PPID: 1  
UID: 108  
State: S  
Path: /proc/1118
```

## PID 1145

```
root          1145  0.0  0.0   2812   824 ?        Ss   20:22   0:00 /usr/sbin/ac
```

```
ubuntu@ubuntu:~/Desktop/proc$ sudo ./get_proc_info /home/ubuntu/Desktop/proc/pr  
oc_info_module.ko -pid 1145  
Name: acpid  
PID: 1145  
PPID: 1  
UID: 0  
State: S  
Path: /proc/1145
```

ps aux (all running commands)(Some part)

```
ubuntu@ubuntu:~/Desktop/proc$ ps aux
```

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1	0.0	0.2	167980	11840	?	Ss	20:22	0:01	/sbin/init m
root	2	0.0	0.0	0	0	?	S	20:22	0:00	[kthreadd]
root	3	0.0	0.0	0	0	?	I<	20:22	0:00	[rcu_gp]
root	4	0.0	0.0	0	0	?	I<	20:22	0:00	[rcu_par_gp]
root	5	0.0	0.0	0	0	?	I<	20:22	0:00	[slub_flushw
root	6	0.0	0.0	0	0	?	I<	20:22	0:00	[netns]
root	8	0.0	0.0	0	0	?	I<	20:22	0:00	[kworker/0:0
root	10	0.0	0.0	0	0	?	I<	20:22	0:00	[mm_percpu_w
root	11	0.0	0.0	0	0	?	I	20:22	0:00	[rcu_tasks_k
root	12	0.0	0.0	0	0	?	I	20:22	0:00	[rcu_tasks_r
root	13	0.0	0.0	0	0	?	I	20:22	0:00	[rcu_tasks_t
root	14	0.0	0.0	0	0	?	S	20:22	0:00	[ksoftirqd/0
root	15	0.0	0.0	0	0	?	I	20:22	0:00	[rcu_preempt
root	16	0.0	0.0	0	0	?	S	20:22	0:00	[migration/0
root	17	0.0	0.0	0	0	?	S	20:22	0:00	[idle_inject
root	19	0.0	0.0	0	0	?	S	20:22	0:00	[cpuhp/0]
root	20	0.0	0.0	0	0	?	S	20:22	0:00	[kdevtmpfs]
root	21	0.0	0.0	0	0	?	I<	20:22	0:00	[inet_frag_w
root	22	0.0	0.0	0	0	?	S	20:22	0:00	[kauditd]
root	23	0.0	0.0	0	0	?	S	20:22	0:00	[khungtaskd]
root	25	0.0	0.0	0	0	?	S	20:22	0:00	[oom_reaper]
root	26	0.0	0.0	0	0	?	I<	20:22	0:00	[writeback]
root	28	0.0	0.0	0	0	?	S	20:22	0:00	[kcompactd0]
root	29	0.0	0.0	0	0	?	SN	20:22	0:00	[ksmd]
root	30	0.0	0.0	0	0	?	SN	20:22	0:00	[khugepaged]
root	31	0.0	0.0	0	0	?	I<	20:22	0:00	[kintegrityd
root	32	0.0	0.0	0	0	?	I<	20:22	0:00	[kblockd]

## Step By Step Implementation

1- Use make command in your /proc directory where both of the c files are located

2- Upon using make command there must be a file that has .ko extension

3- Use gcc get\_proc\_info.c -o get\_proc\_info command to create executable file

4- Use ./get\_proc\_info /path/to/proc\_info\_module.ko -pid 1234 command to execute the .ko file to get process' information to the console,

\*Note please be aware that if you do not give executable a permission it will not work use chmod +x or sudo command usually insmod requires a root permission so using sudo is recommended.