

## CH3 Project2

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In this project, you will write a kernel module that uses /proc file system for displaying a task's information in a Linux system.

Be sure to review the programming project in Chap.2 before you begin this project

It can be completed using the Linux virtual machine provided with the textbook

Part I – Writing to the /proc file system Part II – Reading from the /proc file system

### install

```
make MODULE_NAME=task_info  
sudo insmod task_info.ko
```

### exec

```
# write pid into file  
echo 1 > /proc/task_info  
# see the task info  
cat /proc/task_info
```

### uninstall

```
sudo rmmod task_info  
make clean
```

### screenshot

```
huhuhu ~/code/POSIxat/CH3_project2 ch2-p1 ✓
$ sudo insmod task_info.ko
huhuhu ~/code/POSIxat/CH3_project2 ch2-p1 ✓
$ echo 1 > /proc/task_info
huhuhu ~/code/POSIxat/CH3_project2 ch2-p1 ✓
$ cat /proc/task_info
command = [systemd], pid = [1], state = [1]
huhuhu ~/code/POSIxat/CH3_project2 ch2-p1 ✓
$ echo 188489 > /proc/task_info
huhuhu ~/code/POSIxat/CH3_project2 ch2-p1 ✓
$ cat /proc/task_info
command = [fish], pid = [188489], state = [188489]
huhuhu ~/code/POSIxat/CH3_project2 ch2-p1 ✓
$ sudo rmmod task_info
huhuhu ~/code/POSIxat/CH3_project2 ch2-p1 ✓
$
```

```
huhuhu ~/code/POSIxat ch2-p1 ✓
$ sudo dmesg -W
[10893.393813] /proc/task_info created
[10897.873835] pid is 1
[10904.303057] pid is 188489
[10909.941689] Removing /proc/task_info
```