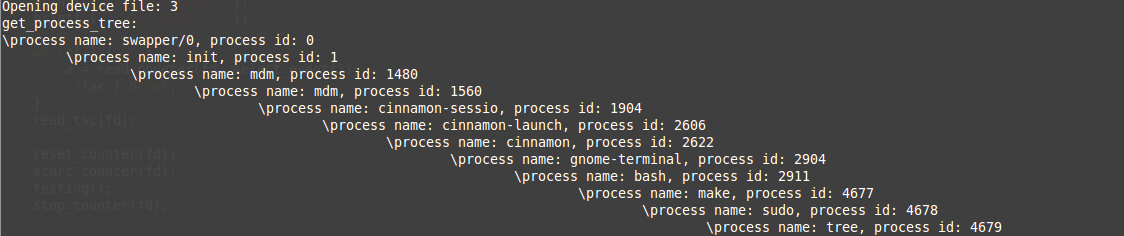
Kernel lab report

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1. Process tree

We implemented a kernel module (chardev) that prints all of the parent processes to the root from the process calling the device. The communication has been done using the ioctl() function inside a process, and we have used our own structure containing the process name and the process id. Inside the module, it searches the processes using task\_struct and task\_struct🡪parent, and puts the information in our structure, and we simply read the information back from our structure.



1. Program Management Unit

We also implemented a kernel module starting, stopping, resetting, selecting, and reading the PMU counter and also reading the TSC register. For the job in between resetting, starting, and stopping the counter, we thought about doing a simple bubble sort for an array of size 8. You’ll have to enter one of the provided options to observe a particular register, and you’ll be able to see the differences.

