M1522.000800 System Programming
Fall 2018

System Programming
Kernel Lab Report

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2016-11988

1. Kernel Lab

The goal of the kernel lab is to learn basic kernel module programming and understand the difference between kernel-level programming and user-level programming. To put the new feature into the kernel, we originally need to recompile the kernel. In my experience with installing Gentoo, it takes about 2 hours to compile, which is very annoying and risky. Instead, we can safely add new module with `debugfs` with very short time, since the modules we added disappear when we reboot the computer. The goal of this lab is adding two modules `ptree`, and `paddr`. What exactly each module does is introduced in the next chapter.

2. Implementation

2.1. ptree

2.2. paddr

3. Conclusion