

Operating Systems TA's Class Outline

- A brief introduction to Mac OS
- Start using Linux (Including installation guides and a brief overview)
- Multi-thread programming in Linux using PThreads
 - o Computer assignment: Development of a simple multi-threaded application in Linux
- Fundamentals of Shell-scripting in Linux using Bash
 - o Computer assignment: Write and execute a simple script in order to convert Fahrenheit to Celsius
- How to find out memory usage of different processes in Linux
 - o Computer assignment: Write and execute a shell script to evaluate total memory usage
- General thoughts about FileSystems in Kernel-level and User-space
 - o How to use FUSE while implementing your new FileSystem
- Introduction to POSIX and its usages
 - o Computer assignment: Write a program in C++ and use at least one of POSIX interfaces directly