



Summary of Material to Know from Chapter 2

You are expected to know each of the topics below and to be able to expand on each.

1. What services are provided by an operating system?
 - What does an OS provide to a user (should be able to list all categories)
 - User's interface to an OS - the command line interface and the GUI
2. What are system calls and how are they implemented?
 - A program's interface to the OS (i.e., an API)
 - Examples of system calls in Linux (Unix)
 - Categories of system calls
 - Implementation of system calls
 - The different methods of passing parameters in system calls
3. What are system programs and how do they differ from system calls?
 - Examples in Linux
 - Services provided by system programs: categories and specific services
4. What are linkers and loaders - what do they do and how are they used?
 - What a linker does
 - What a loader does
 - Dynamic versus static linking
 - Relocation and relocatable code
 - The stages of program building
5. How are operating systems organized? What is their structure?
 - Monolithic code
 - Layered code
 - Micro-kernels
 - Modular code
 - Examples: Linux, Darwin