



Operating System Concepts

Chapter 01 Notes

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1 What is an Operating System

Operating System: software that manages the hardware of a computer system.
It sits between the system's user and hardware.

1.1 What does the OS do?

- The OS provides an environment for programs to run.
- The OS allocates system resources (ex. CPU, RAM) to programs
- The OS manages the execution of programs to prevent errors and improper use of the system.

An computer system is devided into 4 components:

1. The **Hardware** is basic computing resources like CPU(s), RAM, and I/O Devices.

2. **Application(s)** are programs *The User* interacts with like web browsers, softphones, or media players.
3. The **Operating System** orchestrates how applications interact with hardware requests by applications
4. **Users** access computer systems to utilize applications.

1.2 Computer System Organization

1.2.1 Interrupts