

Operating Systems

December 1, 2025

outline

1. background
2. processes
3. memory
4. scheduling
5. i/o and file
6. embedded systems
7. security
8. distributed systems

chapter 1 - 3

describe the basic elements of a computer system and their interrelationship

explain the steps taken by a processor to execute an instruction

understand the concept of interrupts and how and why a process uses interrupts

list and describe the levels of a typical computer memory hierarchy

explain the basic characteristics of multiprocessor and multicore organizations

discuss the concept of locality and analyze the performance of a multilevel memory hierarchy

understand the operation of a stack and its use to support procedure call and return

chapter 4 - 5

chapter 6 - 8

chapter 9 - 10

misc.