



The Importance of Computer Organization and Architecture

Course Prerequisite: Basic Math
Course and Section Numbers: CSE 331

Chapter 3

Instructor's Manual

Chapter Objectives

Chapter 3, *Computer Organization and Architecture*, is a course prerequisite of *Computer Systems: An Introduction to Modern Systems*. This chapter covers fundamental concepts and techniques for computer architecture and organization. The chapter is divided into two main sections: *Computer Organization* and *Computer Architecture*. The *Computer Organization* section covers the internal structure of a computer system, including the CPU, memory, and I/O. The *Computer Architecture* section covers the external structure of a computer system, including the instruction set, the bus, and the system software.

This chapter should be covered after chapters 1, 2, and 4 through 6.

Students should learn the following concepts:

- Computer Organization:** Students should be able to describe the internal structure of a computer system, including the CPU, memory, and I/O. They should be able to explain the role of each component and how they are connected.
- Computer Architecture:** Students should be able to describe the external structure of a computer system, including the instruction set, the bus, and the system software. They should be able to explain the role of each component and how they are connected.
- Computer Organization and Architecture:** Students should be able to describe the relationship between computer organization and architecture. They should be able to explain how the internal structure of a computer system affects its external structure.
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Essentials Of Computer Organization Instructors Manual

SA Adler



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chest to either cover her breast or plea she quietly

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