

COMPUTER SYSTEM ARCHITECTURE

Q1. Write answers for any three questions from below. (5 marks each – Word limit Minimum 500)

A. What is Computer System Architecture? Explain with example?

Ans:- Computer system architecture refers to the design and organization of a computer's fundamental components and their interactions. It defines how hardware components work together to execute instructions and perform tasks, ensuring the effective and efficient operation of a computer system. This encompasses the structure of the CPU, memory hierarchy, input/output systems, and the way these elements interface with one another. Understanding computer architecture is crucial for optimizing performance, designing efficient systems, and troubleshooting hardware and software issues.

Components of Computer System Architecture

1. Central Processing Unit (CPU):

- o *Function: The CPU is the brain of the computer, responsible for executing instructions from programs. It performs arithmetic and logical operations, controls data flow, and manages communication between different components.*
- o *Structure: The CPU is typically divided into the Arithmetic Logic Unit (ALU), which performs calculations and logical operations, and the Control Unit (CU), which directs the operation of the CPU by fetching, decoding, and executing instructions.*

Example: Modern CPUs, such as Intel's Core i7, consist of multiple cores, allowing them to execute several instructions simultaneously, thereby enhancing performance through parallel processing.

2. Memory Hierarchy:

- o *Function: Memory hierarchy refers to the organization of memory into levels, each with varying speeds and sizes. This hierarchy optimizes data storage and retrieval, balancing speed and cost.*
- o *Levels:*

Computer System Architecture

LP Steffe



Computer System Architecture:

This book delves into Computer System Architecture. Computer System Architecture is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Computer System Architecture, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Computer System Architecture
- Chapter 2: Essential Elements of Computer System Architecture
- Chapter 3: Computer System Architecture in Everyday Life
- Chapter 4: Computer System Architecture in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Computer System Architecture. The first chapter will explore what Computer System Architecture is, why Computer System Architecture is vital, and how to effectively learn about Computer System Architecture.

3. In chapter 2, this book will delve into the foundational concepts of Computer System Architecture. This chapter will elucidate the essential principles that must be understood to grasp Computer System Architecture in its entirety.

4. In chapter 3, this book will examine the practical applications of Computer System Architecture in daily life. The third chapter will showcase real-world examples of how Computer System Architecture can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Computer System Architecture in specific contexts. The fourth chapter will explore how Computer System Architecture is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Computer System Architecture. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Computer System Architecture.

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