

2. Computer Architecture (Module 2)

2.1 Computer System

Computer System... hardware, software, and documentation (input/output devices, memory, communication, the hardware and software used to create and use the system)

Computer Architecture... collection of architectural principles that guide the design of the system

Computer Hardware... physical parts of computer system that are visible to the user (e.g., monitor, keyboard, mouse, etc.)

2.2 Design of Computer Systems

- 1. **Requirements**
 - 1.1 **Functional Requirements**
 - 1.1.1 **Hardware**... what physical parts are needed to implement the system
 - 1.1.2 **Software**... software that will run on the hardware
 - 1.1.3 **Performance**... how fast the system should run
 - 1.2 **Non-functional Requirements**
 - 1.2.1 **Reliability**... how often the system should fail
 - 1.2.2 **Security**... how secure the system should be
 - 1.2.3 **Availability**... how often the system should be available
 - 1.2.4 **Scalability**... how well the system should scale
 - 1.2.5 **Interoperability**... how well the system should work with other systems

Architecture... is a set of principles that guide the design of the system (e.g., how to organize the system, how to communicate with the system, etc.)

Computer Architecture... is a set of principles that guide the design of the computer system (e.g., how to organize the system, how to communicate with the system, etc.)

2.3 Computer Architecture

- 1. **Early History**
 - 1.1 **1st Generation**... 1946-1952, vacuum tubes, no operating system
 - 1.2 **2nd Generation**... 1952-1964, transistors, no operating system
 - 1.3 **3rd Generation**... 1964-1970, integrated circuits, no operating system
 - 1.4 **4th Generation**... 1970-1980, microprocessors, no operating system
 - 1.5 **5th Generation**... 1980-1990, VLSI, no operating system
 - 1.6 **6th Generation**... 1990-2000, ULSI, no operating system
 - 1.7 **7th Generation**... 2000-2010, nanotechnology, no operating system
 - 1.8 **8th Generation**... 2010-2020, quantum computing, no operating system
 - 1.9 **9th Generation**... 2020-2030, quantum computing, no operating system
 - 1.10 **10th Generation**... 2030-2040, quantum computing, no operating system
- 2. **Computer Architecture**
 - 2.1 **Computer Architecture**... is a set of principles that guide the design of the computer system (e.g., how to organize the system, how to communicate with the system, etc.)
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Computer Science Illuminated Answer

L Reisser



Computer Science Illuminated Answer:

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