

I'm not a robot!

Computer is an electronic machine that makes performing any task very easy. In computer, the CPU executes each instruction provided to it, in a series of steps, this series of steps is called Machine Cycle, and is repeated for each instruction. One machine cycle involves fetching of instruction, decoding the instruction, transferring the data, executing the instruction. Computer system has five basic units that help the computer to perform operations, which are given below: Input Unit Output Unit Storage Unit Arithmetic Logic Unit Control Unit Input unit connects the external environment with internal computer system. It provides data and instructions to the computer system. Commonly used input devices are keyboard, mouse, magnetic tape etc. Input unit performs following tasks: Accept the data and instructions from the outside world. Convert it into machine language. Supply the converted data to computer system. Output Unit It connects the internal system of a computer to the external environment. It provides the results of any computation, or instructions to the outside world. Some output devices are printers, monitor etc. Storage Unit This unit holds the data and instructions. It also stores the intermediate results before these are sent to the output devices. It also stores the data for later use. The storage unit of a computer system can be divided into two categories: Primary Storage: This memory is used to store the data which is being currently executed. It is used for temporary storage of data. The data is lost, when the computer is switched off. RAM is used as primary storage memory. Secondary Storage: The secondary memory is slower and cheaper than primary memory. It is used for permanent storage of data. Commonly used secondary memory devices are hard disk, CD etc. Arithmetic Logical Unit All the calculations are performed in ALU of the computer system. The ALU can perform basic operations such as addition, subtraction, division, multiplication etc. Whenever calculations are required, the control unit transfers the data from storage unit to ALU. When the operations are done, the result is transferred back to the storage unit. Control Unit It controls all other units of the computer. It controls the flow of data and instructions to and from the storage unit to ALU. Thus it is also known as central nervous system of the computer. CPU It is Central Processing Unit of the computer. The control unit and ALU are together known as CPU. CPU is the brain of computer system. It performs following tasks: It performs all operations. It takes all decisions. It controls all the units of computer. Above figure shows the block diagram of a computer. Computer Engineering MCA Operating System A computer system is basically a machine that simplifies complicated tasks. It should maximize performance and reduce costs as well as power consumption. The different components in the Computer System are Input Unit, Output Unit, Storage Unit, Arithmetic Logic Unit, Control Unit etc. A diagram that shows the flow of data between these units is as follows: The input data travels from input unit to ALU. Similarly, the computed data travels from ALU to output unit. The data constantly moves from storage unit to ALU and back again. This is because stored data is computed on before being stored again. The control unit controls all the other units as well as their data. Details about all the computer units are: Input Unit: The input unit provides data to the computer system from the outside. So, basically it links the computer with the external environment. Most of the output data is in the form of audio or video. The different output devices are monitors, printers, speakers, headphones etc. Storage Unit: Storage unit contains many computer components that are used to store data. It is traditionally divided into primary storage and secondary storage. Primary storage is also known as the main memory and is the memory directly accessible by the CPU. Secondary or external storage is not directly accessible by the CPU. The data from secondary storage needs to be brought into the primary storage before the CPU can use it. Secondary storage contains a large amount of data permanently. Arithmetic Logic Unit: All the calculations related to the computer system are performed by the arithmetic logic unit. It can perform operations like addition, subtraction, multiplication, division etc. The control unit transfers data from storage unit to arithmetic logic unit when calculations need to be performed. The arithmetic logic unit and the control unit together form the central processing unit. Control Unit: This unit controls all the other units of the computer system and so is known as its central nervous system. It transfers data throughout the computer as required including from storage unit to central processing unit and vice versa. The control unit also dictates how the memory, input output devices, arithmetic logic unit etc. should behave. Updated on 31-Jan-2020 06:56:57 Operating System Hardware Software & Coding Computer architecture can be defined as a set of rules and methods that describe the functionality, management and implementation of computers. To be precise, it is nothing but rules by which a system performs and operates. Sub-divisions Computer Architecture can be divided into mainly three categories, which are as follows: Instruction set Architecture or ISA – Whenever an instruction is given to processor, its role is to read and act accordingly. It allocates memory to instructions and also acts upon memory address mode (Direct Addressing mode or Indirect Addressing mode). Micro Architecture – It describes how a particular processor will handle and implement instructions from ISA. System design – It includes the other entire hardware component within the system such as virtualization, multiprocessing, Role of computer.

The main role of Computer Architecture is to balance the performance, efficiency, cost and reliability of a computer system. For Example – Instruction set architecture (ISA) acts as a bridge between computer's software and hardware. It works as a programmer's view of a machine. Computers can only understand binary language (i.e., 0, 1) and users understand high level language (i.e., if else, while, conditions, etc.). So to communicate between user and computer, Instruction set Architecture plays a major role here, translating high level language to binary language. Structure Let us see the example structure of Computer Architecture as given below. Generally, computer architecture consists of the following – Processor, Memory, Peripherals. All the above parts are connected with the help of system bus, which consists of address bus, data bus and control bus. The diagram given below depicts the computer architecture. – Updated on 30-Nov-2021 12:07:44 Computer Organization and Architecture Tutorial provides in-depth knowledge of internal working, structuring, and implementation of a computer system. Whereas, Organization defines the way the system is structured so that all those catalogued tools can be used properly. Our Computer Organization and Architecture Tutorial includes all topics of such as introduction, ER model, keys, relational model, join operation, SQL, functional dependency, transaction, concurrency control, etc. What is Computer Architecture and Organization? In general terms, the architecture of a computer system can be considered as a catalogue of tools or attributes that are visible to the user such as instruction sets, number of bits used for data, addressing techniques, etc. Whereas, Organization of a computer system defines the way system is structured so that all those catalogued tools can be used. The significant components of Computer organization are ALU, CPU, memory and memory organization. Prerequisite Before learning the concepts of Computer Architecture and Organization, you should have a basic knowledge prior to Computer Architecture, basic functional units of a computer system, etc. Audience Our COA tutorial is designed to help beginners and professionals. Problem We can assure you that you will not find any problem in this tutorial. However, if you find any, you can post the questions in the contact form. Next Topic CA VS CO Computer Logical Organization | About the Tutorial Computer Logical Organization refers to the level of ... from basic computer overview till its advanced architecture. Tags: Architecture, Computer, Organization, About, Tutorials, About the tutorial, About the tutorial computer Information Related search queries: Computer Organization and Architecture, Computer Organization Architecture, Computer Organization & Architecture, Computer Organization and Architecture, Organization, Chapter 2 - Computer Organization, Computer, Architecture, COMPUTER AR CHITECTURE, Computer Organization, CS1252 – COMPUTER ORGANIZATION AND, CS1252 – COMPUTER ORGANIZATION AND ARCHITECTURE, Computer Organization Architecture, Computer Organization & Architecture, Computer Organization and Architecture, Organization, Chapter 2 - Computer Organization, Computer, Architecture, COMPUTER AR CHITECTURE, Computer Organization, Computer Organization and Architecture Input, Computer Systems Organization and Architecture

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