

UNIT – I

BASIC STRUCTURE OF COMPUTER SYSTEM

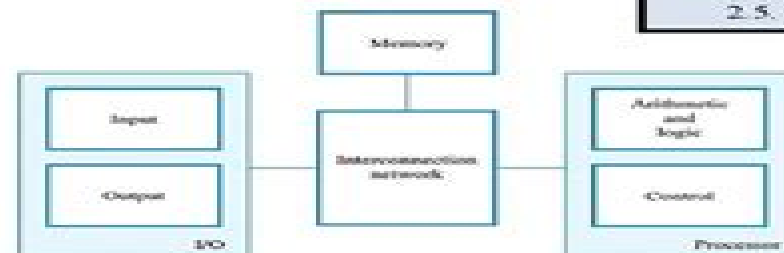
Functional Units - Basic Operational Concepts - Performance - Instructions: Language of the Computer - Operations, Operands - Instruction representation - Logical operations - decision making - MIPS Addressing.

1. FUNCTIONAL UNITS

A computer consists of five functionally independent main parts: input, memory, arithmetic and logic, output, and control units.

1.1. INPUT UNIT

- Computers accept coded information through input units.
- Most common input device is the keyboard.
- When a key is pressed, the corresponding letter or digit is automatically translated into its corresponding binary code and transmitted to the processor.



- ✓ **Cameras** – used to capture video input and it is sampled similar to microphone

1.2. MEMORY UNIT

- The function of the memory unit is to store programs and data. There are two classes of storage, called primary and secondary.

1.2.1. PRIMARY MEMORY

- It is also called main memory. It is a fast memory that operates at electronic speeds.

Components Of Computer System

1. Input Unit
2. Memory Unit
 - 2.1. Primary Memory
 - 2.1.1. Word
 - 2.1.2. Word Length
 - 2.1.3. Basic Operation
 - 2.1.4. Address
 - 2.2. Secondary Memory
 - 2.2.1. Access Time
 - 2.3. Arithmetic And Logic Unit
 - 2.3.1. Registers
 - 2.3.2. One register – One word
- 2.4. Output Unit
- 2.5. Control unit

Other kinds of input devices are

- ✓ **Touchpad,**
- ✓ **Mouse,**
- ✓ **Joystick,**
- ✓ **Trackball.**
- ✓ **Microphones** – used to capture audio input which is then sampled and converted into digital codes for storage and processing.

Computer Architecture Notes

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