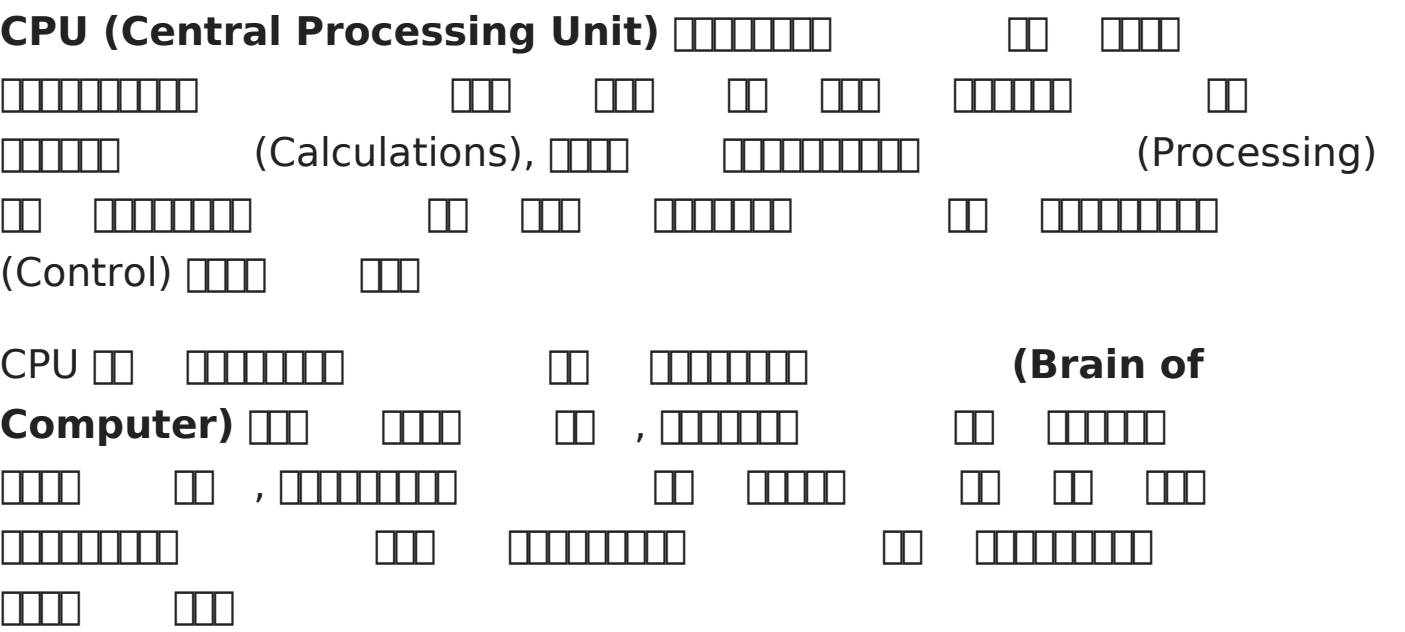


CPU (Central Processing Unit) – The Brain of Computer ()

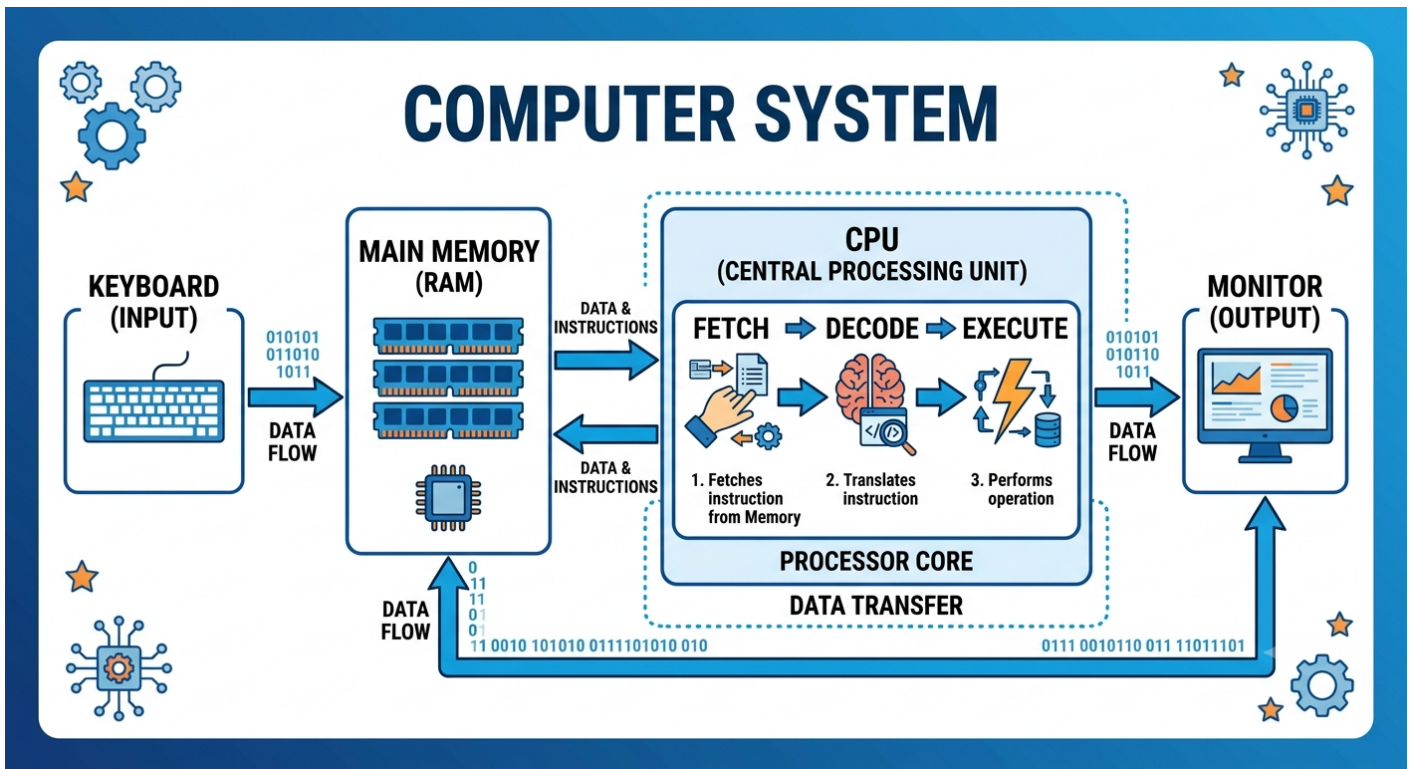
The **CPU (Central Processing Unit)** is the **most important part** of a computer. It performs all calculations, processes data, and controls every operation of the computer.

CPU is called the **Brain of the Computer** because it makes decisions, executes instructions, and manages all hardware and software components.

Without a CPU, a computer cannot work.



□□ CPU □□ □□□ □□□□□□ □□ □□□ □□
□□□□



Main Components of CPU (CPU □□ □□□□ □□)

CPU □□ □□ □□□□ □□ □□□ □□ —

1. ALU (Arithmetic Logic Unit)
2. CU (Control Unit)
3. Memory Unit / Registers

ALU (Arithmetic Logic Unit)

ALU performs all arithmetic and logical operations.

ALU □□ □□□□ (Arithmetic) □□ □□□□□ (Logical) □□□□ □□□
□□

Arithmetic Operations

- Addition (+)
- Subtraction (−)
- Multiplication (×)
- Division (÷)

Logical Operations

- Greater Than (>)
- Less Than (<)
- Equal To (=)
- AND
- OR
- NOT

□□□□□

□□ □ □□□□ □□ — **15 + 10**

□ □□□□ □ □□□□ **ALU** □□□ □□

□□ □□□ □□ — **50 > 20 ?**

□ □□□□ □ **ALU** □□□ □□

CU (Control Unit)

The Control Unit controls and coordinates all activities of the computer.

Control Unit □□□ □□□□□□ □ □□ □□□ □ □□□□□□ (Control)
□□□ □□

□ □□□□ □ □□ —

- □□ □□□ □□□ □□
- □□□ □□□□ □□
- □□ -□ □□□□ □□ □□□ □□

□□ **Control Unit** □□□□ □□ □□□ □□□ □□□□

□□□□□

□□□ ALU □□ **Worker** □□ ,

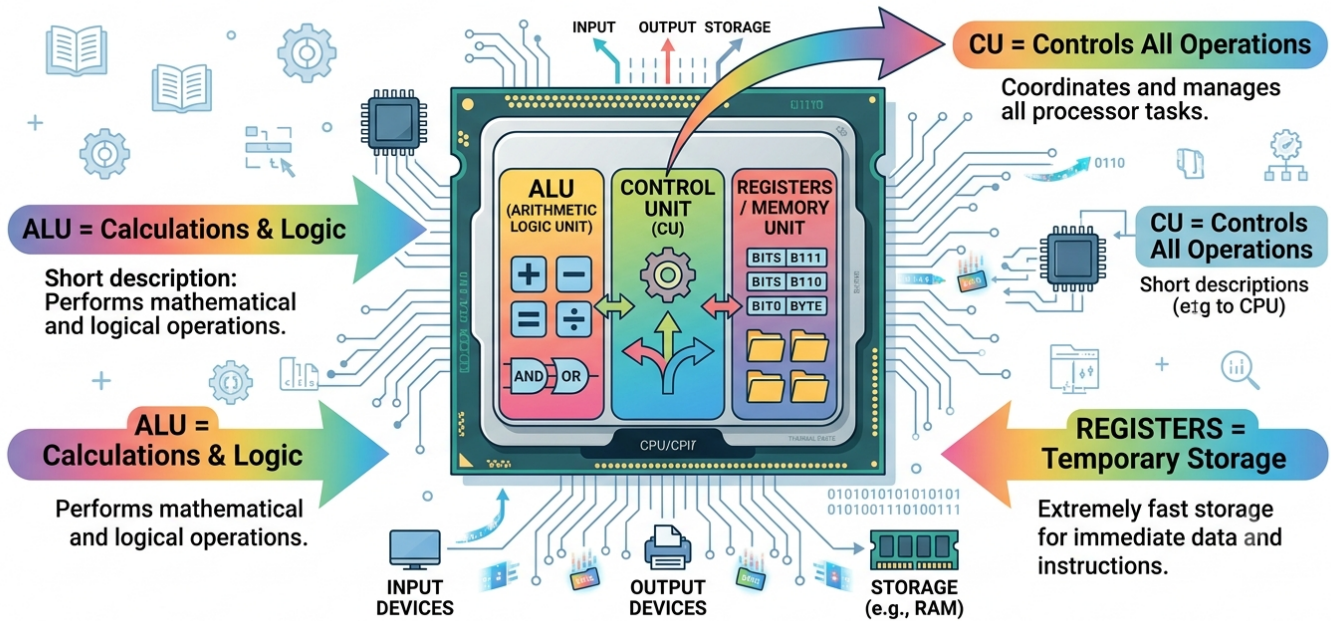
□□ Control Unit □□□□ **Manager** □□□

Memory Unit (Registers)

The Memory Unit stores instructions and data temporarily while processing.

Memory Unit □□□□□□□□ □□ □□□□ □□□ □□ □□□□□□ □□ □□
□□□ □□ □□ □□□□□□ □□□□ □□□

CPU (CENTRAL PROCESSING UNIT)



Revision #1

Created 2026-07-13 06:29:06 UTC by Admin

Updated 2026-07-13 06:38:56 UTC by Admin