**Topic: The Central Processing Unit**

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**The Central Processing Unit (CPU)**

**Definition**

1. **The central processing unit (CPU) is the portion of a computer system that executes the instructions of a computer program, and is the primary element carrying out the functions of the computer or other processing device.**
2. **The central processing unit (CPU) is the computer component that’s responsible for interpreter and executing most of the commands from the computers other hardware and software.**

**The Central Processing Unit (CPU) is the part of a computer that thinks, calculates and carries out instruction.**

**The Central Processing Unit carriers out each instruction of the program in sequence, perform the following:**

1. **Arithmetical**
2. **Logical**
3. **Input / Output Operations of the system.**

**The Central Processing Unit (CPU) is also called the brain of the computer. It is sometimes called the central processor or simply the processor.**

**A computer can have more than one CPU; this is called multiprocessing. The CPU can be found in the motherboard. All the functions of the CPU are stored in a component called the chip.**

**All sorts of devices use a CPU, including**

**1. desktop**

1. **Laptop**
2. **Tablet**
3. **Smart phones**
4. **Flat Television set**

**Intel and AMD are the two most popular CPU manufacturer for desktops, laptops and servers, while NVIDIA and Qualcomm are big smart phone and tablet CPU makers.**

**CPU has different names including**

1. **Processor**
2. **Microprocessor**
3. **Brain of the computer**

**The CPU attaches directly to a CPU ‘Socket’ (or sometimes a ‘slot’) on the motherboard. The CPU is inserted into the socket pin-side-down.**

**The clock speed of Processor**

**The Clock speed of a processor is the number of instructions it can process in any given second, measured in hertz (Hz). A CPU with a Clock Speed of 3.0 GHz can process 3 billion instructions each per second.**

**Some devices have a single- core process while others may have a dual-core (or quad-core, etc) processor.**