PC ASSEMBLING AND TROUBLESHOOTING

DAY4

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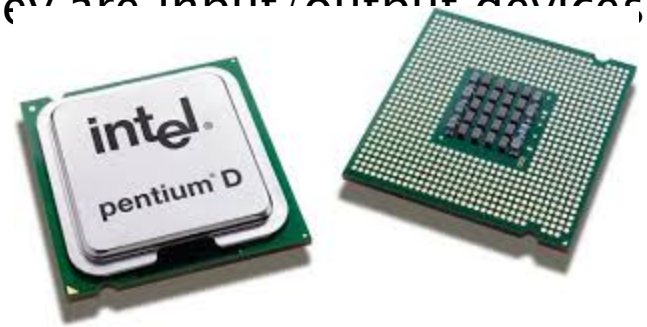
TOPICS

- Different kind of processors for personal computer

What is processor

- The processor is a chip or a logical circuit that responds and processes the basic instructions to drive a particular computer. The main functions of the processor are fetching, decoding, executing, and write back the operations of an instruction. The processor is also called the brain of any system which incorporates computers, laptops, smartphones, embedded systems, etc. The ALU (Arithmetic Logic Unit) and CU (Control Unit) are the two parts of the processors. The Arithmetic Logic Unit performs all mathematical operations such as additions, multiplications, subtractions, divisions, etc and the control unit works like traffic police, it manages the command or the operation of the instructions. The processor communicates with the other components also they are input/output devices and memory/storage devices.



DIFFERENT KIND OF PROCESSORS

- **Intel Pentium Dual-Core Processor**
- Doubling the speed of one processor and combining two cores in one processor is not the same. The dual-core processor provides 25% to 75% better performance than a similar single processor if it is capable of providing the multitasking and supports threading. Some of the main features of Intel Pentium Dual-Core processor are:
- Deliver great desktop performance
- Multitasking for everyday computing
- Low power enhancements

Intel i3 Processors

- It was first launched in January 2010 and is a dual-core processor. It comes with Integrated Graphics and Hyper-Threading Technology, which makes it act like quad-core. It is much powerful to support games, but for PC, you should have a good Graphic card as well to play heavy games like GTA 5. Main features of these processors are:
- Hyperthreading
- Dual Core
- Max Cache = 3MB
- Lot cheaper

Intel i5 Processors

- It is a quad-core processor, which means that it comes with 4 cores, with enabled Turbo Boost technology (it turns off the core when not in use). It does not support Hyper-Threading Technology. The cache range of these processors is from 3MB-8MB. Main features of these processors are:
- Mid-range processor
- Mid-range GPU
- Turbo Boost Technology
- 2-4 cores
- 3-8 MB cache

Intel i7 Processors

- It was first launched in 2009, with 4 cores and enabled Hyper-Threading Technology, which makes it act like an 8-core processor. It is a costly and super-powerful processor. It comes with 4-8MB of the cache. Main features of these processors are:
- High-end processors
- 4 cores
- 8 threads
- Turbo Boost enabled
- Hyperthreading enabled
- Super expensive
- 4-8MB cache

AMD PROCESSORS

- **AMD A4 Processor**
- Main features of these processors are:
- 2 cores
- Include a Radeon Graphic Chip
- Used for a low-end system.
- **AMD A6 Processor**
- Main features of these processors are:
- Dual-core
- Allow Turbo function
- Integrated graphics

- **AMD A8 processors**
- It is comparable to i3 and low i5 processors. Main features of these processors are:
- 4 cores
- Graphic part faster than Intel's version
- Can handle light gaming with ease
- **AMD A10 processors**
- Main features of these processors are:
- 4 processors comparable with i5
- Better battery life

THANKS