

Basics Of Dual-Core Process Computer

The computer has been one of the most amazing and fruitful discoveries man has ever made. It has revolutionized the way man does his things. The way he eats, drinks, sleeps and even thinks. And computer itself has evolved over the years. From the Eniac I to the hand-held palmtops in executives' hands today, computer has changed with the technology. And it has changed our lives too.

The latest addition to this revolution of technical upgrading of computers is the dual-core processor technology. It refers to the CPU (Central Processing Unit- the brains of the computer) that possesses two independent and complete execution cores for each of its two processors. The concerned CPU contains two combined processors along with their cache memories and their respective controllers integrated into a singular circuit (commonly known as a silicon chip).

The dual-core process computer is suited to multitasking and handling miscellaneous tasks (often unrelated to each other). Because its CPU has two completely independent execution cores and both have independent interfaces to the front bus, it has excellent capacity to execute several programs and tasks simultaneously. Similarly, dual-core process computers may have more processor cores which is actually named as a multi-core process computer. These are highly efficient machines to conduct intensive tasks of computing or program execution at the same instance of time.

The Pentium dual-core process computer is the most preferred brand of computer in the market. It has x86-architected microprocessors integrated onto its circuit. The 32-bit Yonah processors are a base for mobile computers while the 64-bit Allendale processors are maintained for the desktop computers. Both have absolutely different architecture as far as microprocessor technical build is concerned.

By early 2007, Intel decided to launch dual-core process computers in the field of notebooks or laptops too. This was a very important and vital decision as there were no other rivals in this phase if the market of computer architecture. Intel had only decided to launch the dual-core process computer system applying to notebooks on the behest of notebook or laptop manufacturers. The first processors to appear in notebooks using the dual-core process computer technology were the Pentium T2060, T2080 and a 32-bit Pentium M based on the Yonah core with a 1 MB L2 cache, instead of the usual 2MB cache memory.

Intel had forced a return of the Pentium brand to the market arena on 2006 with a host of low-cost single core Conroe-L core architecture processors with a 1 MB cache. These were numbered `1` to distinguish them from dual core process computer cores that had been labeled with the digit `2`.

More recently, on June 3, 2007, Intel released desktop dual-core processors from the Pentium brand. They were named as E2140 and E2160. September 2007 saw the late release of a better and updated model named E2180. These processors support the Intel64 extensions, because of their Allendale derived Core architecture. The power of these dual-core process computers was very imminent as most companies' demands exceeded supply over these multi-processor machines.

Dual-core process computer systems have taken over the world of computing today. As of its multi-tasking ability, it has gained world-wide acclaim due to its efficient, quick and yet superior quality program execution and task completion abilities. Heavier programs and complex games may be run with these dual-core process computer systems at the regular pace of conventional single-core processor systems did with light programs on the execution chart.

The age of computers had begun a long time back. But the age of sleek and efficient computing with the help of razor-edge technology has just begun with the dual-core process computer systems.

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