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| **Pentium**  **History**  Pentium is an extended family of x86 microprocessors produced by intel since 1992  **Number of**  **cores**  2 cores. No hyper threading. Today they are used in ultra-budget pcs. They are dual-core processors.  **Speed**  It was available with processor speeds ranging from 60 MHz to 200 MHz  **Heat**  P ship with a high quality, variable speed fan heat sink to effectively transfer processor heat to the air system.  **Cost**  It cost up to 10127 according to speed and other specification in current market | **Dual core**  **History**  It comes under multi core processor  **Number of cores**  Dual core has 2 processing cores  **Speed**  Dual core is less powerful in terms of speed.  **Task**  Dual core does not support multitasking like quad core.  **Heat**  Dual core is lighter and no heat is generated when working  **Energy consumption**  Dual core consumes less power  **Cost**  It costs up to 4889(2.8GHz)  According to speed and other specification in current market | **Core2Due**  **History**  It is the extensive version of dual core processors  **Number of cores**  2 cores o single die.  45 nm technology.  Intel core 2 duo processors are the next gen processors from intel.  The new architecture of intel core2 duo makes it a lot better processor that runs cool.  Most importantly the intel core 2 duo is super over clocker  **Cost**  Core 2 duo costs up to 1396(4.0GHz)  According to speed and other specification in current market | **I-3**  **Number of cores**  All of them are 2 cores  **Cache size**  All of them have 3 MB cache.  **Performance**  It provides adequate performance for basic tasks  Entry level processor  4 threads  32 nm silicon  It has no turbo mode.  **Price**  low | **I-5**  **Number of cores**  Either 2 cores or 4 cores.  **Cache size**  All of them have 6 MB cache  **Performance**  It provides good performance for most task  Mid-range processor  4 threads  32-45 nm silicon  Turbo mode (turn of if not used)  **Price**  Mid-range | **I-7**  **Number of cores**  All of them are cor4 cores  **Cache size**  All of them have 8MB cache.  **Performance**  It provides great performance for the most demanding of tasks.  High end processor  8 threads  32-45 nm silicon  Turbo mode(turn of if not used)  **price**  best |