|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Processor | Series  Nomenclature | Code  Name | Production  Date | Clock  Rate | Fabrication | TDP | Number of cores | Bus speed | L1 Cache | L2  Cache | L3 Cache |
| Intel Core i3 | i3-xxx, i3-2xxx, i3-3xxx, i3-4xxx | [Arrandale](https://en.wikipedia.org/wiki/Arrandale_(microprocessor)),  [Clarkdale](https://en.wikipedia.org/wiki/Clarkdale_(microprocessor)),[Sandy Bridge](https://en.wikipedia.org/wiki/Sandy_Bridge_(microarchitecture)), [Ivy Bridge](https://en.wikipedia.org/wiki/Ivy_Bridge_(microarchitecture)),[Haswell](https://en.wikipedia.org/wiki/Haswell_(microarchitecture)) | 2010 - present | 1.2 GHz - 3.7 GHz | 1.6 GHz - 4.4 GHz | 35 W - 73 W | Double | 1066 MHz, 1600 MHz, 2.5 - 5 GT/s | 64 KiB per core | 256 KiB | 3 MiB - 4 MiB |
| Intel Core i5 | i5-7xx, i5-6xx, i5-2xxx, i5-3xxx, i5-4xxx | [Arrandale](https://en.wikipedia.org/wiki/Arrandale_(microprocessor)),  [Clarkdale](https://en.wikipedia.org/wiki/Clarkdale_(microprocessor)),[Clarksfield](https://en.wikipedia.org/wiki/Clarksfield_(microprocessor)),[Lynnfield](https://en.wikipedia.org/wiki/Lynnfield_(microprocessor)),[Sandy Bridge](https://en.wikipedia.org/wiki/Sandy_Bridge_(microarchitecture)), [Ivy Bridge](https://en.wikipedia.org/wiki/Ivy_Bridge_(microarchitecture)),[Haswell](https://en.wikipedia.org/wiki/Haswell_(microarchitecture)) | 2009 - present | 1.06 GHz - 3.6 GHz | 22 nm, 32 nm, 45 nm | 17 W - 95 W | Double  ,Quad | 2.5 - 5 GT/s | 64 KiB per core | 64 KiB per core | 4 MiB - 8 MiB |
| Intel Core i7 | i7 -6xx, i7-7xx, i7-8xx, i7-9xx, i7-2xxx, i7-37xx, i7-38xx, i7-47xx, i7-48xx | [Bloomfield](https://en.wikipedia.org/wiki/Bloomfield_(microprocessor)),  [Nehalem](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)),[Clarksfield](https://en.wikipedia.org/wiki/Clarksfield_(microprocessor)),[Clarksfield XM](https://en.wikipedia.org/wiki/Clarksfield_(microprocessor)),[Lynnfield](https://en.wikipedia.org/wiki/Lynnfield_(microprocessor)),[Sandy Bridge](https://en.wikipedia.org/wiki/Sandy_Bridge), [Sandy Bridge-E](https://en.wikipedia.org/wiki/Sandy_Bridge-E), [Ivy Bridge](https://en.wikipedia.org/wiki/Ivy_Bridge_(microarchitecture)), [Ivy Bridge-E](https://en.wikipedia.org/wiki/Ivy_Bridge-E),[Haswell](https://en.wikipedia.org/wiki/Haswell_(microarchitecture)),[Haswell Refresh, Devil‘s Canyon](https://en.wikipedia.org/wiki/Haswell_(microarchitecture)) | 2008 – present, 2011 -Present | 1.6 GHz - 4.4 GHz | 22 nm, 32 nm, 45 nm | 45 W - 130 W | Quad | 4.8 GT/s, 6.4 GT/s | 64 KiB per core | 4×256 KiB | 6 MiB - 10 MiB |

# Differences among Core i3, Core i5 and Core i7 Intel Microprocessors

At this moment I am using intel core i7. I used intel core i3 before which was my father’s laptop. If I compare this two I would prefer my new core i7 one. Because it is the latest processor. It has 4 cores so it can run more than one applications at the same time easily but core i3 can’t. I do not chose core i5 because I think core i7 is better than core i5. It’s clock rate is faster than core i3 or core i5. I like to play games, so it is better for me. But the main reason for buying this for my CSE under graduation courses.

**Reference:**

https://en.wikipedia.org/wiki/Comparison\_of\_Intel\_processors

<http://www.pcadvisor.co.uk/buying-advice/pc-components/whats-difference-between-intel-core-i3-i5-i7-3417091/>

http://www.expertreviews.co.uk/pcs/cpus/1400962/whats-the-difference-between-core-i3-i5-and-i7-processors

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**Intel Microprocessors – General Discussion**

* Intel Corporation holds a good reputation as they are introducing computer

Microprocessors since 1971.

* Microprocessor isman electronic component which is used by a

computer to do its works.

* Intel has introduced 4-bit, 8-bit, 16-bit, 32-bit and 64-bit processors and day

by day it is developing.

* Here we can mention some well-known brands of Intel Corporation, such as -

Core Solo, Core Duo, Core 2 Solo, Core 2 Duo, Core 2 Quad, Core 2

Extreme, Core M, Core i3, Core i5, Core i7, Core i7 (Extreme Edition) etc.

* Intel Corporation has introduced specialized microprocessors for specific

device, such as for desktop, laptop, mobile, tab etc.

