

## Intel Desktop CPU (2007-2010)

Brand	Core i7?		Core i7		
Processor #			9x0	9x5	
Codename	Clarkdale	Lynnfield	Bloomfield		Gulftown
Micro-architecture	Nehalem(Westmere)		Nehalem		Nehalem(Westmere)
# of Core	Dual Core	Quad Core	Quad Core		Hexa(6) Core
# of Thread	4	8	8		12
Hyper-Threading	2 threads/core		2 threads/core		2 threads/core
Dual-Processor	N/A		(DP)		(DP)
Intel 64	Intel 64		Intel 64		Intel 64
VT	Extended VT-x/d		Extended VT-x/d		Extended VT-x/d
Turbo Boost	Turbo Boost+EIST		Turbo Boost+EIST		
Cache	512KB+4MB	1MB+8MB	1MB L2+8MB L3		1.5MB L2+12MB L3
FSB	PCIe x16/DMI	PCIe x16/DMI	QPI 4.8Gtps	QPI 6.4Gtps	QPI ?Gtps
Memory interface	DDR3 1333 x2	DDR3 1066 x2	DDR3 1066 x3	DDR3 1066 x3	DDR3 x3
GPU core	GPU core	N/A	N/A		N/A
Package	LGA1156		LGA1366		LGA1366
Process Technology	32nm	45nm	45nm		32nm
# of Die	2(CPU+GMCH)		1		1
TDP	65W	95W	130W		130W

Brand	Pentium DC	Core 2 Duo			Core 2 Quad			Core 2 Extreme				
Processor #	E5xxx	E7xxx	E8xxx	Q8x00	Q9x00	Q9x50	QX9650	QX9770	QX9775			
Codename	Wolfdale	Wolfdale 3M	Wolfdale	Yorkfield			Yorkfield XE	Yorkfield XE 1600 FSB				
Micro-architecture	Core MA(Penryn)						Core MA(Penryn)					
# of Core	Dual Core			Quad Core			Quad Core					
# of Thread	2			4			4					
Hyper-Threading	N/A						N/A					
Dual-Processor	N/A						N/A		DP			
Intel 64	Intel 64						Intel 64					
VT	N/A	N/A	VT	N/A	VT		VT					
Trusted Execution Tech	N/A	TXT			N/A	TXT		N/A				
EIST(SpeedStep)	EIST						EIST					
Cache	2MB L2	3MB L2	6MB L2	2x2MB L2	2x3MB L2	2x6MB L2	2x6MB L2					
FSB	FSB800	FSB1067	FSB1333				FSB1333	FSB1600				
Memory interface	N/A						N/A					
Package	LGA775						LGA775		LGA771			
Process Technology	45nm						45nm					
# of Die	1			2			2					
TDP	65W			95W			130W	136W	150W			

Brand	Atom			
Processor #	2xx	3xx		
Codename	Diamondville SC	Diamondville DC	Pineview SC	Pineview DC
Micro-architecture	Silverthorne		Lincroft	
# of Core	Single Core	Dual Core	Single Core	Dual Core
# of Thread	2	4	2	4
Hyper-Threading	2 threads/core		2 threads/core	
Dual-Processor				
Intel 64	Intel 64		Intel 64	
VT	N/A			
EIST(SpeedStep)	N/A			
Cache	512KB	1MB		
FSB	FSB533		DMI	
Memory interface	N/A		DDR2 x1	DDR2 x1
GPU core	N/A		GPU core	GPU core
Package	FCBGA8 (437pin)			
Process Technology	45nm		45nm	
# of Die	1	2	1	
TDP	4W	8W		

Brand	Core 2 Duo				Core 2 Quad	Core 2 Extreme					
Processor #	E4xxx	E6300/6400	E6x20	E6x40	E6x50	Q6xxx	X6xxx	QX6xxx	QX6x50		
Codename	Conroe					Kentsfield	Conroe XE	Kentsfield			
Micro-architecture	Core MA					Core MA					
# of Core	Dual Core					Quad Core	Dual Core	Quad Core			
# of Thread	2					4	2	4			
Hyper-Threading	N/A					N/A					
Dual-Processor	N/A					N/A					
Intel 64	Intel 64					Intel 64					
VT	N/A	VT				VT					
Trusted Execution Tech	N/A				TXT	N/A					
EIST(SpeedStep)	EIST					EIST					
Cache	2MB L2	2MB L2	4MB L2			4MBx2=8MB L2	4MB L2	4MBx2=8MB L2			
FSB	FSB800	FSB1067			FSB1333	FSB1067				FSB1333	
Memory interface	N/A					N/A					
Package	LGA775					LGA775					
Process Technology	65nm					65nm					
# of Die	1					2	1	2			
TDP	65W					95-105W	75W	130W			

Brand	Celeron(Integrated Board)		Celeron	Celeron DC	Pentium DC	
Processor #	2x5	2x0	4xx	E1xxx	E2xxx	
Codename	Yonah SC	Conroe-L		Conroe	Conroe 1M	
Micro-architecture	Yonah	Core MA				
# of Core	Single Core			Dual Core		
# of Thread	1			2		
Hyper-Threading	N/A					
Dual-Processor	N/A					
Intel 64	N/A	Intel 64				
VT	N/A					
Trusted Execution Tech	N/A					
EIST(SpeedStep)	N/A			EIST		
Cache	512KB			1MB L2		
FSB	FSB533	FSB800				
Memory interface	N/A					
Package	LGA775					
Process Technology	65nm					
# of Die	1					
TDP	27W	19W	35W	65W		