

Intel Desktop CPU (2007-2010)

Brand	Core i7			
Processor #				
Codename	Havendale	Lynnfield	Bloomfield	Westmere
Micro-architecture	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	
Dual-Processor	N/A		DP?	DP?
Intel 64	Intel 64		Intel 64	
VT	Extended VT-x/d		Extended VT-x/d	
EIST(SpeedStep)	Enhanced Intel SpeedStep			
Cache	512KB+4MB	1MB+8MB	1MB L2+8MB L3	
FSB	PCIe x16/DMI	PCIe x16/DMI	QPI 4.8Gtps	QPI 6.4Gtps
Memory interface	DDR3 1066 x2		DDR3 1066 x3	DDR3 1066 x3
GPU core	GPU core	N/A	N/A	
Package	LGA1160		LGA1366	
Process Technology	45nm		45nm	
# of Die	2(CPU+GMCH)	1	1	
TDP	<95W	95W	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	?	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
Codename	Yonah SC	Conroe-L		Conroe
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