

Intel Desktop CPU (2007-2010)

Brand				
Processor #				
Codename	Havendale	Lynnfield	Bloomfield	
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	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	?
EIST(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 1333 x3
GPU core	GPU core	N/A	N/A	N/A
Package	LGA1160		LGA1366	LGA1366
Process Technology	45nm		45nm	32nm
# of Die	2(CPU+GMCH)	1	1	1
TDP	<95W	95W	130W	?W

Brand	Core 2 Duo		Core 2 Quad		Core 2 Extreme		
Processor #	E7xxx	E8xxx	Q9x00	Q9x50	QX9650	QX9770	QX9775
Codename	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	VT			VT		
Trusted Execution Tech	TXT				N/A		
EIST(SpeedStep)	EIST				EIST		
Cache	3MB L2	6MB L2	2x3MB L2	2x6MB L2	2x6MB L2		
FSB	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	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	Atom	
Processor #	2x5	2x0	4xx	E1xxx	E2xxx	2xx	3xx
Codename	Yonah SC	Conroe-L		Conroe	Conroe 1M	Diamondville SC	Diamondville DC
Micro-architecture	Yonah	Core MA				Silverthorne	
# of Core	Single Core			Dual Core		Single Core	Dual Core
# of Thread	1			2		2	4
Hyper-Threading	N/A				2 threads/core		
Dual-Processor	N/A						
Intel 64	N/A	Intel 64				Intel 64	
VT	N/A				N/A		
Trusted Execution Tech	N/A				N/A		
EIST(SpeedStep)	N/A			EIST		N/A	
Cache	512KB				1MB L2	512KB	1MB
FSB	FSB533	FSB800				FSB533	
Memory interface	N/A				N/A		
Package	LGA775				FCBGA8 (437pin)		
Process Technology	65nm				45nm		
# of Die	1				1	?	
TDP	27W	19W	35W	65W		4W	8W