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Name	Intel® Xeon® Processor X5650 (12M Cache, 2.66 GHz, 6.40 GT/s Intel® QPI)	Intel® Xeon® Processor X5550 (8M Cache, 2.66 GHz, 6.40 GT/s Intel® QPI)
Code Name	Westmere-EP	Nehalem-EP
Status	Launched	Launched
Launch Date	Q1'10	Q1'09
Processor Number	X5650	X5550
# of Cores	6	4
# of Threads	12	8
Clock Speed	2.66 GHz	2.66 GHz
Max Turbo Frequency	3.06 GHz	3.06 GHz
Cache	12 MB Intel® Smart Cache	8 MB Intel® Smart Cache
Bus/Core Ratio	20	
Bus Type	QPI	QPI
System Bus	6.4 GT/s	6.4 GT/s
# of QPI Links	2	2
Instruction Set	64-bit	64-bit
Instruction Set Extensions	SSE4.2	
Embedded Options Available	No	No
Lithography	32 nm	45 nm
Max TDP	95 W	95 W
VID Voltage Range	0.750V-1.350V	0.750V -1.350V
Tray 1ku Budgetary Price	\$996.00	\$958.00
Memory Specifications		
Max Memory Size (dependent on memory type)	288 GB	144 GB
Memory Types	DDR3-800/1066/1333	DDR3-800/1066/1333
# of Memory Channels	3	3
Max Memory Bandwidth	32 GB/s	32 GB/s
Physical Address Extensions	40-bit	40-bit
ECC Memory Supported	Yes	Yes
Graphics Specifications		
Integrated Graphics	No	
Package Specifications		
Max CPU Configuration	2	2
T _{CASE}	81.3°C	75°C

Package Size	42.5mm X 45mm	42.5mm x 45mm
Lithography	32 nm	45 nm
Processing Die Size		263 mm ²
# of Processing Die Transistors		731 million
Sockets Supported	FCLGA1366	FCLGA1366
Advanced Technologies		
Intel® Turbo Boost Technology	Yes	Yes
Intel® Hyper-Threading Technology	Yes	Yes
Intel® Virtualization Technology (VT-x)	Yes	Yes
Intel® Trusted Execution Technology	Yes	No
AES New Instructions	Yes	
Intel® 64	Yes	Yes
Idle States	Yes	Yes
Enhanced Intel SpeedStep® Technology	Yes	Yes
Intel® Demand Based Switching	Yes	Yes
Thermal Monitoring Technologies	No	
Execute Disable Bit	Yes	Yes

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