



# INTEL XEON 5500 SERIES PROCESSOR PERFORMANCE FOR 11G 2S SERVERS (SPEC\_INT\_RATE)



Spec\_int\_rate (integer) is a measure of mainstream CPU taxing workloads

- To determine the performance increase, choose your current processor in the left-hand-column
- Then move across the row to match the upsell processor

			2S Servers: R610, R710, M610, M710, T610									
			E5502	E5504	E5506	E5520	E5530	E5540	X5550	X5560	X5570	
			1.88 GHz DC	2.00 GHz QC	2.13 GHz QC	2.26 GHz QC	2.40 GHz QC	2.53 GHz QC	2.66 GHz QC	2.80 GHz QC	2.93 GHz QC	
			BASIC			STANDARD			ADVANCED			
			4M Cache, DDR3 800 MHz			8M Cache, DDR3 1066 MHz			8M Cache, DDR3 1333 MHz			
2S SERVERS: 1950, 2950, M600, 2900	DUAL CORE	E5205	1.86 GHz DC	25%	139%	150%	252%	266%	277%	324%	338%	349%
		L5240	3.0 GHz DC	-15%	63%	71%	140%	149%	157%	189%	198%	206%
		X5260	3.33 GHz DC	-20%	52%	60%	125%	133%	141%	171%	179%	187%
		X5270	3.5 GHz DC	-23%	48%	55%	118%	126%	133%	163%	171%	178%
	QUAD CORE	E5405	2.0 GHz QC	-36%	22%	28%	81%	87%	93%	117%	124%	130%
		E5410	2.33 GHz QC	-42%	12%	17%	65%	71%	76%	98%	104%	110%
		E5420	2.5 GHz QC	-44%	7%	12%	58%	64%	69%	90%	96%	101%
		E5430	2.66 GHz QC	-46%	3%	8%	52%	58%	63%	84%	89%	94%
		E5440	2.83 GHz QC	-48%	-1%	4%	46%	52%	57%	76%	82%	87%
		X5450	3.0 GHz QC	-50%	-4%	-1%	42%	47%	52%	71%	76%	81%
2S SERVERS: R610, R710, M610, M710, T610	STANDARD	X5460	3.16 GHz QC	-51%	-7%	-2%	38%	43%	47%	66%	71%	76%
		X5470	3.33 GHz QC	-53%	-9%	-5%	34%	39%	43%	61%	66%	71%
		E5502	1.88 GHz DC		91%	100%	182%	192%	202%	239%	250%	259%
	ADVANCED	E5504	2.00 GHz QC			5%	48%	53%	58%	78%	83%	88%
		E5506	2.13 GHz QC				41%	46%	51%	70%	75%	80%
		E5520	2.26 GHz QC					4%	7%	20%	24%	27%
		E5530	2.40 GHz QC						3%	16%	20%	23%
		E5540	2.53 GHz QC							13%	16%	19%
		X5550	2.66 GHz QC								3%	6%
		X5560	2.80 GHz QC									3%
X5570	2.93 GHz QC											

Note: All performance data is based on SPEC\_int\_rate benchmark testing, actual application performance may vary. Performance figures represent processor performance and not overall server performance.



# INTEL XEON 5500 SERIES PROCESSOR PERFORMANCE FOR 11G 2S SERVERS (SPEC\_FP\_RATE)



Spec\_fp\_rate (floating point) is generally associated with scientific, engineering, or industrial applications such as HPC (High Performance Clusters)

- To determine the performance increase, choose your current processor in the left-hand-column
- Then move across the row to match the upsell processor

2S Servers: R610, R710, M610, M710, T610												
			E5502	E5504	E5506	E5520	E5530	E5540	X5550	X5560	X5570	
			1.88 GHz DC	2.00 GHz QC	2.13 GHz QC	2.26 GHz QC	2.40 GHz QC	2.53 GHz QC	2.66 GHz QC	2.80 GHz QC	2.93 GHz QC	
			BASIC			STANDARD			ADVANCED			
			4M Cache, DDR3 800 MHz			8M Cache, DDR3 1066 MHz			8M Cache, DDR3 1333 MHz			
2S SERVERS: 1950, 2950, M600, 2900	DUAL CORE	E5205	1.86 GHz DC	76%	190%	200%	302%	313%	323%	380%	391%	396%
		L5240	3.0 GHz DC	26%	107%	115%	187%	195%	202%	243%	251%	254%
		X5260	3.33 GHz DC	20%	98%	105%	174%	181%	188%	227%	235%	238%
		X5270	3.5 GHz DC	17%	94%	101%	169%	176%	183%	221%	228%	232%
	QUAD CORE	E5405	2.0 GHz QC	9%	80%	86%	149%	156%	162%	198%	204%	207%
		E5410	2.33 GHz QC	3%	69%	76%	135%	141%	147%	181%	187%	190%
		E5420	2.5 GHz QC	0%	65%	71%	129%	135%	141%	173%	179%	182%
		E5430	2.66 GHz QC	-2%	61%	67%	123%	129%	135%	167%	172%	175%
		E5440	2.83 GHz QC	-5%	57%	63%	118%	124%	130%	161%	167%	170%
		X5450	3.0 GHz QC	-8%	52%	58%	112%	117%	123%	153%	158%	161%
X5460		3.16 GHz QC	-8%	51%	57%	110%	115%	121%	151%	156%	159%	
X5470	3.33 GHz QC	-10%	49%	54%	106%	112%	117%	146%	152%	154%		
2S SERVERS: R610, R710, M610, M710, T610	BASIC	E5502	1.88 GHz DC		65%	71%	129%	135%	141%	173%	179%	182%
		E5504	2.00 GHz QC			4%	39%	42%	46%	66%	69%	71%
		E5506	2.13 GHz QC				34%	37%	41%	60%	63%	65%
	STANDARD	E5520	2.26 GHz QC					3%	5%	19%	22%	23%
		E5530	2.40 GHz QC						3%	16%	19%	20%
		E5540	2.53 GHz QC							14%	16%	17%
	ADVANCED	X5550	2.66 GHz QC								2%	3%
		X5560	2.80 GHz QC									1%
		X5570	2.93 GHz QC									

Note: All performance data is based on SPEC\_fp\_rate benchmark testing, actual application performance may vary. Performance figures represent processor performance and not overall server performance.