



# SPEC<sup>®</sup> CFP2006 Result

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## IBM Corporation

## SPECfp<sup>®</sup>\_rate2006 = Not Run

## IBM System x3550 (Intel Xeon E5420)

## SPECfp\_rate\_base2006 = 63.5

CPU2006 license: 11

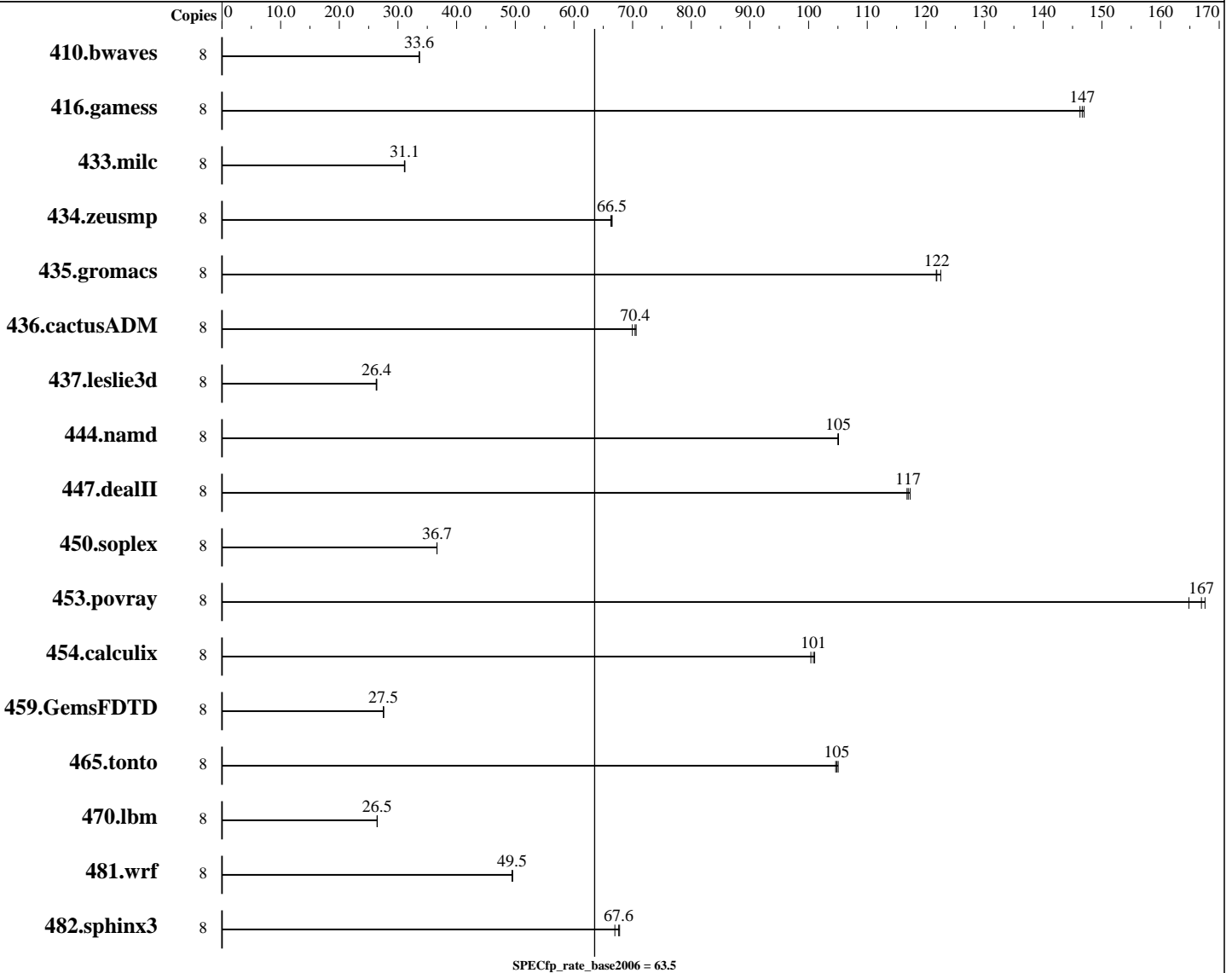
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Nov-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon E5420  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2493  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

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### Software

Operating System: SuSE Linux Enterprise Server 10 (x86\_64), kernel 2.6.16.21-0.8-smp  
 Compiler: Intel C++ and Fortran Compiler 10.1 for Linux Build 20070913 Package ID: l\_cc\_p\_10.1.008, l\_fc\_p\_10.1.008  
 Auto Parallel: No  
 File System: ReiserFS  
 System State: Multi-user, run level 3  
 Base Pointers: 64-bit

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L3 Cache: None  
Other Cache: None  
Memory: 16 GB (8 x 2 GB DDR2-5300F ECC)  
Disk Subsystem: 1 x 36 GB SAS, 15000 RPM  
Other Hardware: None

Peak Pointers: Not Applicable  
Other Software: Binutils 2.17.50.0.15

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3233	33.6	3230	33.7	<b><u>3233</u></b>	<b><u>33.6</u></b>							
416.gamess	8	1066	147	1071	146	<b><u>1068</u></b>	<b><u>147</u></b>							
433.milc	8	2355	31.2	<b><u>2359</u></b>	<b><u>31.1</u></b>	2362	31.1							
434.zeusmp	8	<b><u>1095</u></b>	<b><u>66.5</u></b>	1098	66.3	1095	66.5							
435.gromacs	8	469	122	466	123	<b><u>469</u></b>	<b><u>122</u></b>							
436.cactusADM	8	1354	70.6	<b><u>1358</u></b>	<b><u>70.4</u></b>	1367	70.0							
437.leslie3d	8	2861	26.3	<b><u>2853</u></b>	<b><u>26.4</u></b>	2851	26.4							
444.namd	8	610	105	611	105	<b><u>611</u></b>	<b><u>105</u></b>							
447.dealII	8	<b><u>782</u></b>	<b><u>117</u></b>	784	117	780	117							
450.soplex	8	<b><u>1820</u></b>	<b><u>36.7</u></b>	1821	36.6	1820	36.7							
453.povray	8	258	165	254	168	<b><u>255</u></b>	<b><u>167</u></b>							
454.calculix	8	653	101	657	100	<b><u>655</u></b>	<b><u>101</u></b>							
459.GemsFDTD	8	3088	27.5	<b><u>3086</u></b>	<b><u>27.5</u></b>	3078	27.6							
465.tonto	8	749	105	752	105	<b><u>751</u></b>	<b><u>105</u></b>							
470.lbm	8	<b><u>4153</u></b>	<b><u>26.5</u></b>	4159	26.4	4151	26.5							
481.wrf	8	1807	49.4	<b><u>1806</u></b>	<b><u>49.5</u></b>	1803	49.5							
482.sphinx3	8	<b><u>2306</u></b>	<b><u>67.6</u></b>	2300	67.8	2328	67.0							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## General Notes

All benchmarks compiled in 64-bit mode  
Hardware Sector Prefetch Disabled and Adjacent Sector Prefetch Disabled  
OMP\_NUM\_THREADS set to number of cores  
KMP\_AFFINITY set to physical,0  
KMP\_STACKSIZE set to 64M  
Powersaved dameon was disabled in OS  
taskset utility used to bind CPU(s) to processes

## Base Compiler Invocation

C benchmarks:  
icc

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## Base Compiler Invocation (Continued)

C++ benchmarks:  
icpc

Fortran benchmarks:  
ifort

Benchmarks using both Fortran and C:  
icc ifort

## Base Portability Flags

410.bwaves: -DSPEC\_CPU\_LP64  
416.gamess: -DSPEC\_CPU\_LP64  
433.milc: -DSPEC\_CPU\_LP64  
434.zeusmp: -DSPEC\_CPU\_LP64  
435.gromacs: -DSPEC\_CPU\_LP64 -nofor\_main  
436.cactusADM: -DSPEC\_CPU\_LP64 -nofor\_main  
437.leslie3d: -DSPEC\_CPU\_LP64  
444.namd: -DSPEC\_CPU\_LP64  
447.dealII: -DSPEC\_CPU\_LP64  
450.soplex: -DSPEC\_CPU\_LP64  
453.povray: -DSPEC\_CPU\_LP64  
454.calculix: -DSPEC\_CPU\_LP64 -nofor\_main  
459.GemsFDTD: -DSPEC\_CPU\_LP64  
465.tonto: -DSPEC\_CPU\_LP64  
470.lbm: -DSPEC\_CPU\_LP64  
481.wrf: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_CASE\_FLAG -DSPEC\_CPU\_LINUX  
482.sphinx3: -DSPEC\_CPU\_LP64

## Base Optimization Flags

C benchmarks:  
-fast

C++ benchmarks:  
-fast

Fortran benchmarks:  
-fast

Benchmarks using both Fortran and C:  
-fast



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The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.11.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.11.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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