



# SPEC<sup>®</sup> CFP2006 Result

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## IBM Corporation

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

## IBM System x3500 (Intel Xeon E5430)

## SPECfp\_rate\_base2006 = 64.9

CPU2006 license: 11

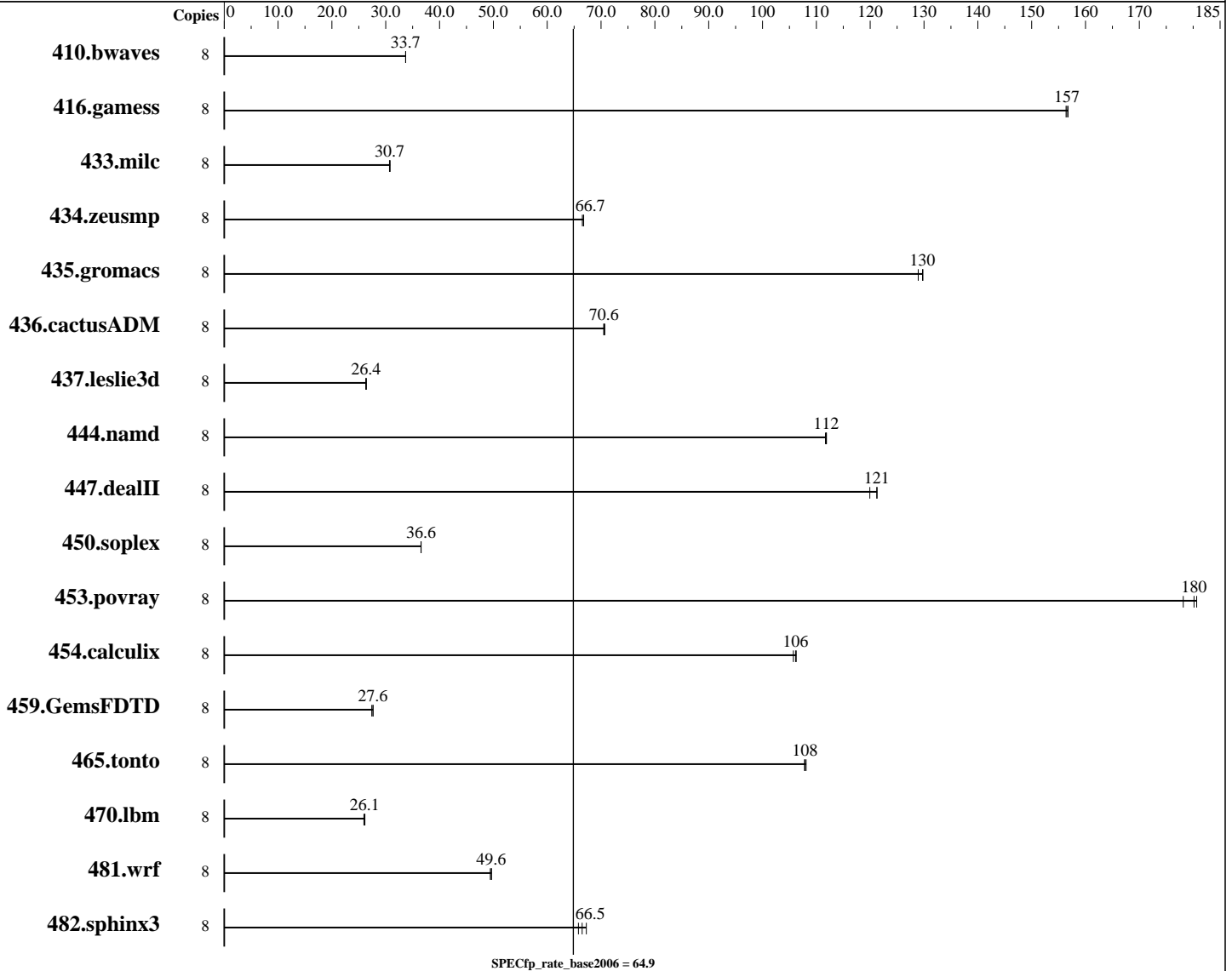
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Apr-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon E5430  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2667  
 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 80 GB SATA, 7200 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	<b>3226</b>	<b>33.7</b>	3226	33.7	3226	33.7							
416.gamess	8	1002	156	999	157	<b>1001</b>	<b>157</b>							
433.milc	8	2384	30.8	2392	30.7	<b>2389</b>	<b>30.7</b>							
434.zeusmp	8	<b>1091</b>	<b>66.7</b>	1090	66.8	1094	66.5							
435.gromacs	8	440	130	443	129	<b>440</b>	<b>130</b>							
436.cactusADM	8	1356	70.5	1352	70.7	<b>1355</b>	<b>70.6</b>							
437.leslie3d	8	2860	26.3	<b>2852</b>	<b>26.4</b>	2849	26.4							
444.namd	8	574	112	573	112	<b>574</b>	<b>112</b>							
447.dealII	8	<b>755</b>	<b>121</b>	755	121	763	120							
450.soplex	8	<b>1825</b>	<b>36.6</b>	1824	36.6	1825	36.6							
453.povray	8	<b>236</b>	<b>180</b>	239	178	236	181							
454.calculix	8	621	106	<b>622</b>	<b>106</b>	624	106							
459.GemsFDTD	8	<b>3072</b>	<b>27.6</b>	3097	27.4	3070	27.6							
465.tonto	8	728	108	730	108	<b>730</b>	<b>108</b>							
470.lbm	8	<b>4211</b>	<b>26.1</b>	4237	25.9	4206	26.1							
481.wrf	8	1800	49.6	<b>1801</b>	<b>49.6</b>	1808	49.4							
482.sphinx3	8	2370	65.8	<b>2345</b>	<b>66.5</b>	2318	67.3							

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  
taskset utility used to bind CPU(s) to processes  
This result is measured on an IBM System x 3500 Server. Note  
that the IBM System x 3500 and IBM System x 3400 are electrically  
equivalent.

### 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-linux64-revC.20090713.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-fp-linux64-revC.20090713.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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