



# SPEC® CFP2006 Result

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## IBM Corporation

## SPECfp®\_rate2006 = Not Run

## IBM System x3500 (Intel Xeon E5440)

## SPECfp\_rate\_base2006 = 66.3

CPU2006 license: 11

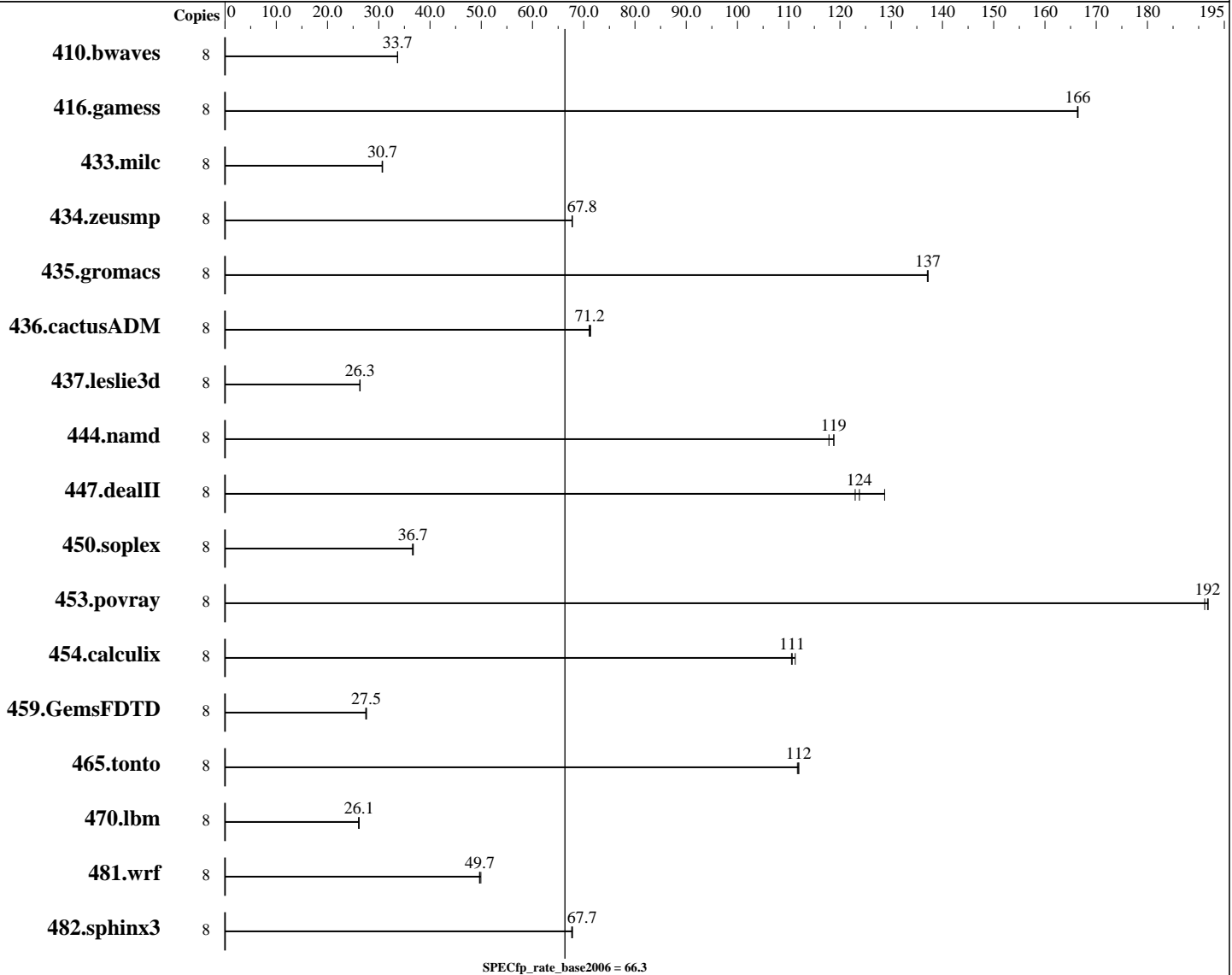
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Feb-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon E5440  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2833  
 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>3228</b>	<b>33.7</b>	3227	33.7	3230	33.7							
416.gamess	8	<b>941</b>	<b>166</b>	941	166	942	166							
433.milc	8	2389	30.7	<b>2390</b>	<b>30.7</b>	2396	30.6							
434.zeusmp	8	1074	67.8	1075	67.7	<b>1074</b>	<b>67.8</b>							
435.gromacs	8	417	137	416	137	<b>416</b>	<b>137</b>							
436.cactusADM	8	<b>1343</b>	<b>71.2</b>	1340	71.3	1345	71.1							
437.leslie3d	8	2859	26.3	2852	26.4	<b>2855</b>	<b>26.3</b>							
444.namd	8	<b>540</b>	<b>119</b>	544	118	540	119							
447.dealII	8	711	129	744	123	<b>739</b>	<b>124</b>							
450.soplex	8	<b>1819</b>	<b>36.7</b>	1816	36.7	1824	36.6							
453.povray	8	223	191	<b>222</b>	<b>192</b>	222	192							
454.calculix	8	<b>596</b>	<b>111</b>	597	111	593	111							
459.GemsFDTD	8	3091	27.5	3074	27.6	<b>3082</b>	<b>27.5</b>							
465.tonto	8	705	112	703	112	<b>703</b>	<b>112</b>							
470.lbm	8	<b>4205</b>	<b>26.1</b>	4218	26.1	4202	26.2							
481.wrf	8	<b>1797</b>	<b>49.7</b>	1800	49.7	1790	49.9							
482.sphinx3	8	2299	67.8	2304	67.7	<b>2303</b>	<b>67.7</b>							

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

## Base Compiler Invocation

C benchmarks:  
icc

C++ benchmarks:  
icpc

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## Base Compiler Invocation (Continued)

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

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.20090714.15.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.20090714.15.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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