



# SPEC<sup>®</sup> CFP2006 Result

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## IBM Corporation

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

## IBM System x3500 (Intel Xeon X5450)

## SPECfp\_rate\_base2006 = 67.9

CPU2006 license: 11

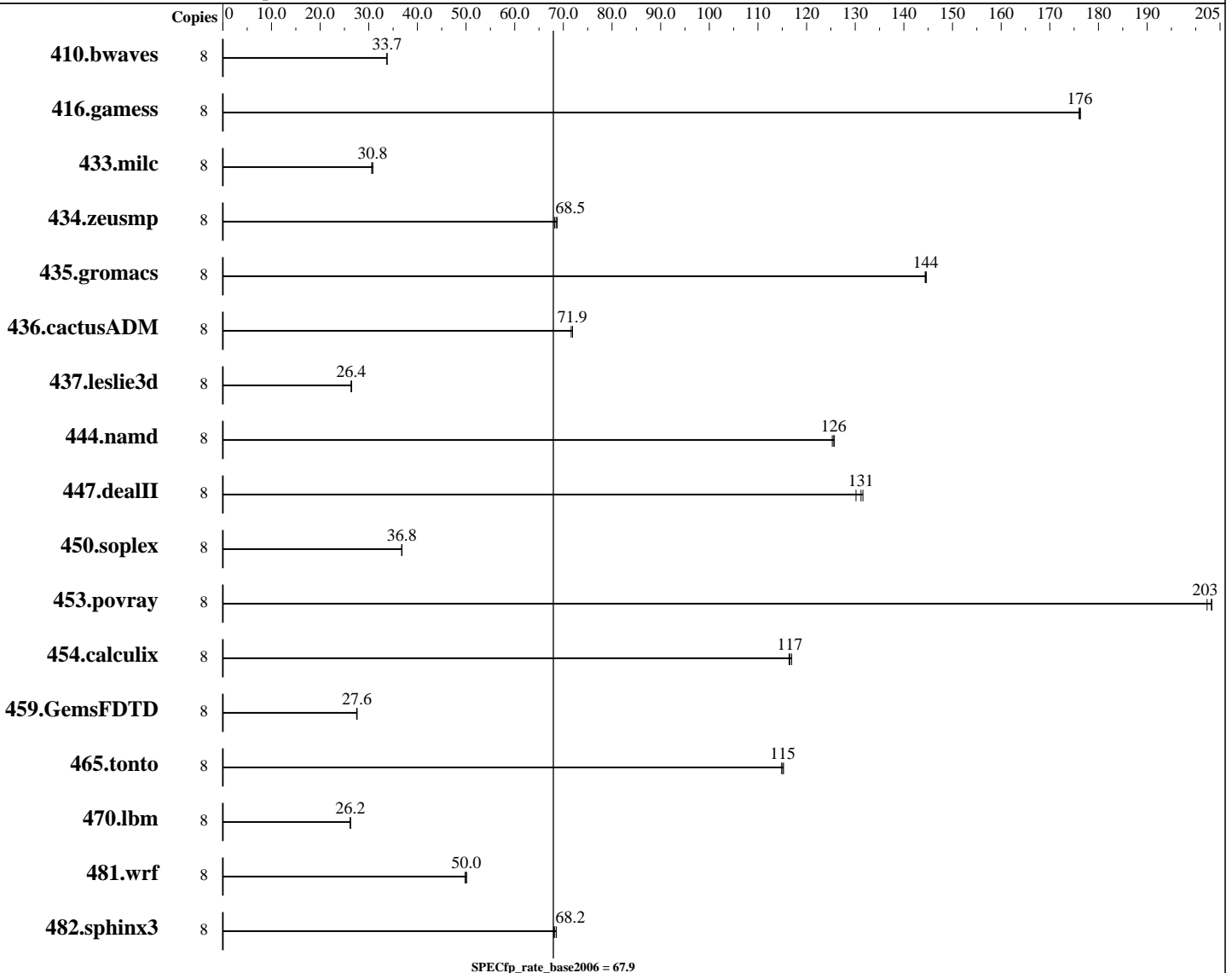
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Feb-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon X5450  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 3000  
 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	3221	33.8	3224	33.7	<b><u>3223</u></b>	<b><u>33.7</u></b>							
416.gamess	8	890	176	<b><u>889</u></b>	<b><u>176</u></b>	888	176							
433.milc	8	<b><u>2385</u></b>	<b><u>30.8</u></b>	2400	30.6	2385	30.8							
434.zeusmp	8	<b><u>1063</u></b>	<b><u>68.5</u></b>	1067	68.2	1059	68.8							
435.gromacs	8	395	145	396	144	<b><u>395</u></b>	<b><u>144</u></b>							
436.cactusADM	8	1335	71.6	1330	71.9	<b><u>1330</u></b>	<b><u>71.9</u></b>							
437.leslie3d	8	2850	26.4	2843	26.5	<b><u>2849</u></b>	<b><u>26.4</u></b>							
444.namd	8	<b><u>511</u></b>	<b><u>126</u></b>	510	126	512	125							
447.dealII	8	703	130	<b><u>698</u></b>	<b><u>131</u></b>	696	132							
450.soplex	8	1814	36.8	<b><u>1813</u></b>	<b><u>36.8</u></b>	1813	36.8							
453.povray	8	<b><u>209</u></b>	<b><u>203</u></b>	209	203	210	202							
454.calculix	8	564	117	<b><u>566</u></b>	<b><u>117</u></b>	567	116							
459.GemsFDTD	8	3086	27.5	<b><u>3081</u></b>	<b><u>27.6</u></b>	3075	27.6							
465.tonto	8	<b><u>684</u></b>	<b><u>115</u></b>	683	115	685	115							
470.lbm	8	<b><u>4194</u></b>	<b><u>26.2</u></b>	4199	26.2	4191	26.2							
481.wrf	8	<b><u>1786</u></b>	<b><u>50.0</u></b>	1783	50.1	1794	49.8							
482.sphinx3	8	2275	68.5	<b><u>2285</u></b>	<b><u>68.2</u></b>	2292	68.0							

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  
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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