



# SPEC<sup>®</sup> CFP2006 Result

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## IBM Corporation

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

## IBM BladeCenter HS21 (Intel Xeon E5430)

## SPECfp\_rate\_base2006 = 64.9

CPU2006 license: 11

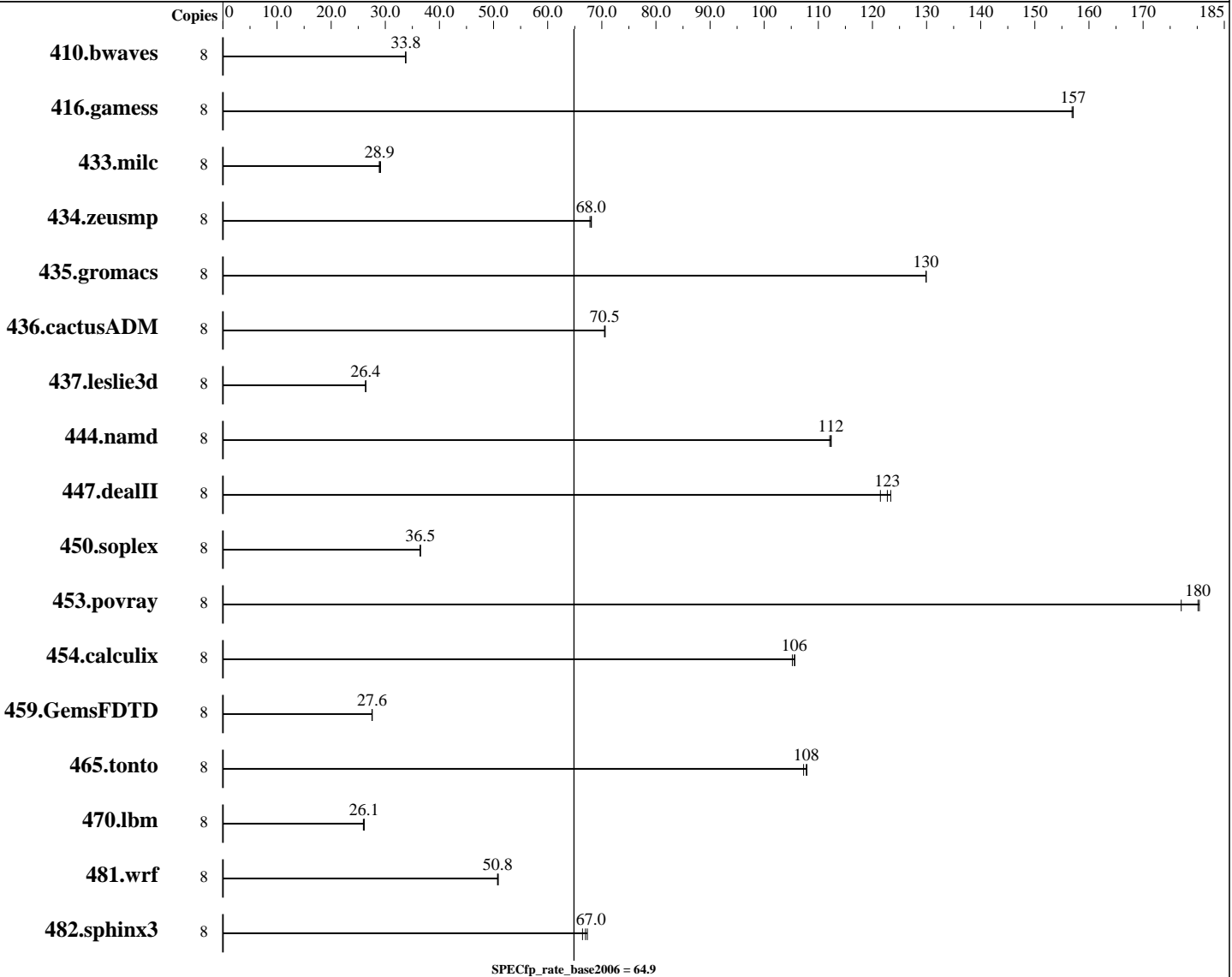
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon E5430  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2666  
 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, 10000 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	3219	33.8	<b><u>3220</u></b>	<b><u>33.8</u></b>	3221	33.8							
416.gamess	8	<b><u>997</u></b>	<b><u>157</u></b>	997	157	999	157							
433.milc	8	2540	28.9	<b><u>2539</u></b>	<b><u>28.9</u></b>	2522	29.1							
434.zeusmp	8	1069	68.1	<b><u>1070</u></b>	<b><u>68.0</u></b>	1074	67.8							
435.gromacs	8	440	130	440	130	<b><u>440</u></b>	<b><u>130</u></b>							
436.cactusADM	8	1356	70.5	1354	70.6	<b><u>1356</u></b>	<b><u>70.5</u></b>							
437.leslie3d	8	2855	26.3	<b><u>2851</u></b>	<b><u>26.4</u></b>	2845	26.4							
444.namd	8	571	112	<b><u>571</u></b>	<b><u>112</u></b>	572	112							
447.dealII	8	753	121	<b><u>746</u></b>	<b><u>123</u></b>	742	123							
450.soplex	8	1829	36.5	1829	36.5	<b><u>1829</u></b>	<b><u>36.5</u></b>							
453.povray	8	<b><u>236</u></b>	<b><u>180</u></b>	240	177	236	180							
454.calculix	8	<b><u>625</u></b>	<b><u>106</u></b>	625	106	627	105							
459.GemsFDTD	8	3077	27.6	<b><u>3080</u></b>	<b><u>27.6</u></b>	3083	27.5							
465.tonto	8	730	108	734	107	<b><u>730</u></b>	<b><u>108</u></b>							
470.lbm	8	<b><u>4213</u></b>	<b><u>26.1</u></b>	4237	25.9	4210	26.1							
481.wrf	8	<b><u>1760</u></b>	<b><u>50.8</u></b>	1756	50.9	1761	50.8							
482.sphinx3	8	<b><u>2328</u></b>	<b><u>67.0</u></b>	2316	67.3	2347	66.4							

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.20090714.11.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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