



# SPEC<sup>®</sup> CFP2006 Result

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## IBM Corporation

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

## IBM BladeCenter HS21 (Intel Xeon X5355)

## SPECfp\_rate\_base2006 = 56.8

CPU2006 license: 11

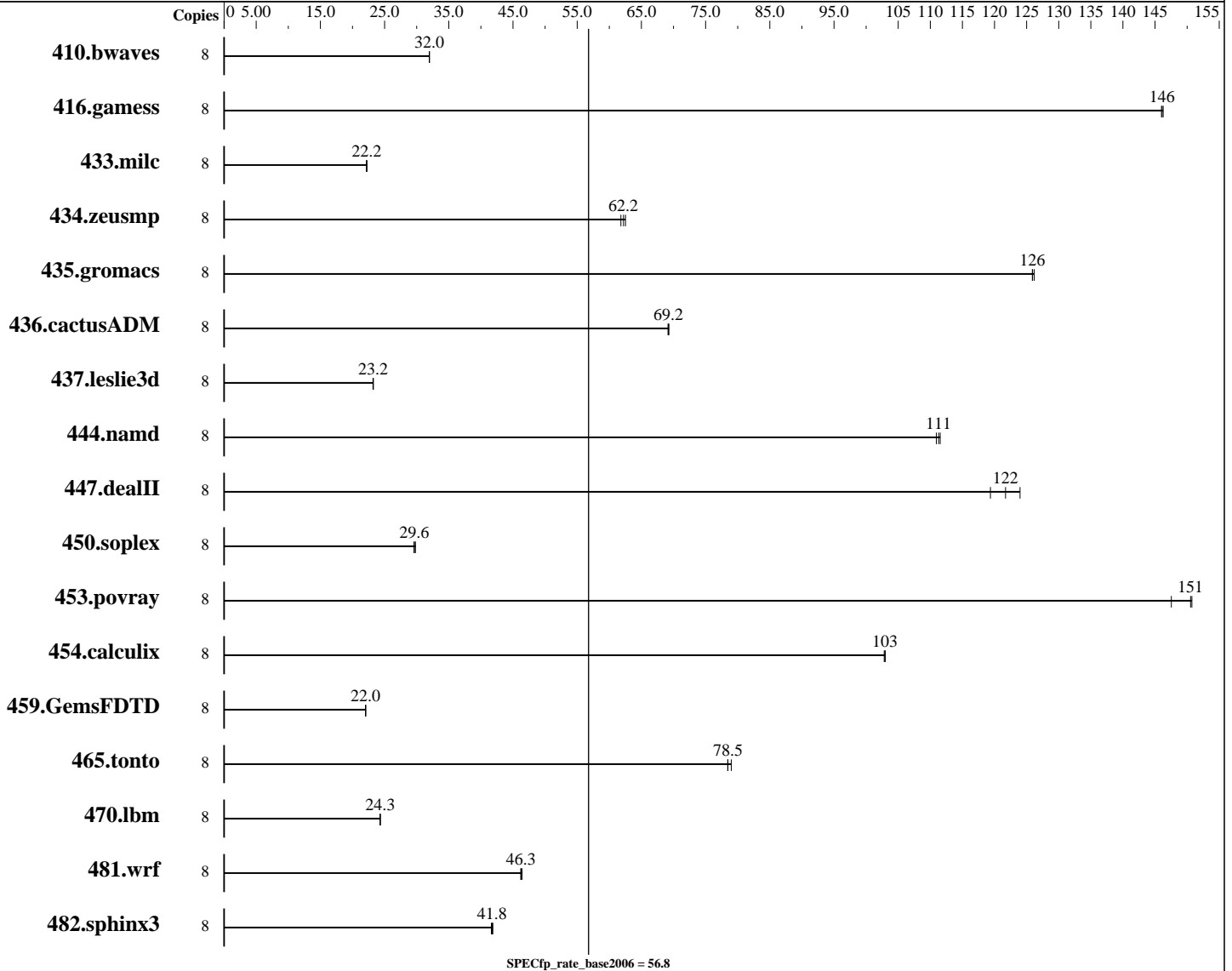
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Apr-2007

Hardware Availability: Apr-2007

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon X5355  
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

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### Software

Operating System: SuSE Linux Enterprise Server 10 EM64T kernel 2.6.16.21-0.8-smpt  
 Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1  
 Package ID l\_cc\_c\_9.1.045 Build no 20061101  
 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1  
 Package ID l\_fc\_c\_9.1.040 Build no 20061101  
 Auto Parallel: No

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L3 Cache: None  
Other Cache: None  
Memory: 8 GB (8 x 1GB DDR2-5300F ECC)  
Disk Subsystem: 1 x 74 GB SAS, 10000 RPM  
Other Hardware: Memory and I/O Expansion Unit (P/N 42C1600)

File System: ext2  
System State: Multi-user run level 3  
Base Pointers: 64-bit  
Peak Pointers: Not Applicable  
Other Software: None

### Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3401	32.0	<b>3401</b>	<b>32.0</b>	3400	32.0							
416.gamess	8	1073	146	1071	146	<b>1072</b>	<b>146</b>							
433.milc	8	<b>3306</b>	<b>22.2</b>	3311	22.2	3303	22.2							
434.zeusmp	8	<b>1170</b>	<b>62.2</b>	1178	61.8	1164	62.5							
435.gromacs	8	453	126	<b>454</b>	<b>126</b>	454	126							
436.cactusADM	8	1380	69.3	1383	69.1	<b>1381</b>	<b>69.2</b>							
437.leslie3d	8	<b>3238</b>	<b>23.2</b>	3243	23.2	3235	23.2							
444.namd	8	575	112	<b>576</b>	<b>111</b>	578	111							
447.dealII	8	<b>752</b>	<b>122</b>	767	119	738	124							
450.soplex	8	2238	29.8	<b>2251</b>	<b>29.6</b>	2255	29.6							
453.povray	8	288	148	<b>283</b>	<b>151</b>	282	151							
454.calculix	8	641	103	642	103	<b>641</b>	<b>103</b>							
459.GemsFDTD	8	<b>3851</b>	<b>22.0</b>	3852	22.0	3847	22.1							
465.tonto	8	1004	78.4	996	79.0	<b>1003</b>	<b>78.5</b>							
470.lbm	8	4521	24.3	<b>4520</b>	<b>24.3</b>	4520	24.3							
481.wrf	8	1934	46.2	1925	46.4	<b>1932</b>	<b>46.3</b>							
482.sphinx3	8	3745	41.6	<b>3734</b>	<b>41.8</b>	3725	41.9							

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

### Platform Notes

"ulimit -s unlimited" set

### Base Compiler Invocation

C benchmarks:  
icc

C++ benchmarks:  
icpc

Fortran benchmarks:  
ifort

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## Base Compiler Invocation (Continued)

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/ibm-ic91-flags.html>

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

<http://www.spec.org/cpu2006/flags/ibm-ic91-flags.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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