



# SPEC<sup>®</sup> CFP2006 Result

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## IBM Corporation

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

## IBM System x3550 (Intel Xeon E5405)

## SPECfp\_rate\_base2006 = 58.2

CPU2006 license: 11

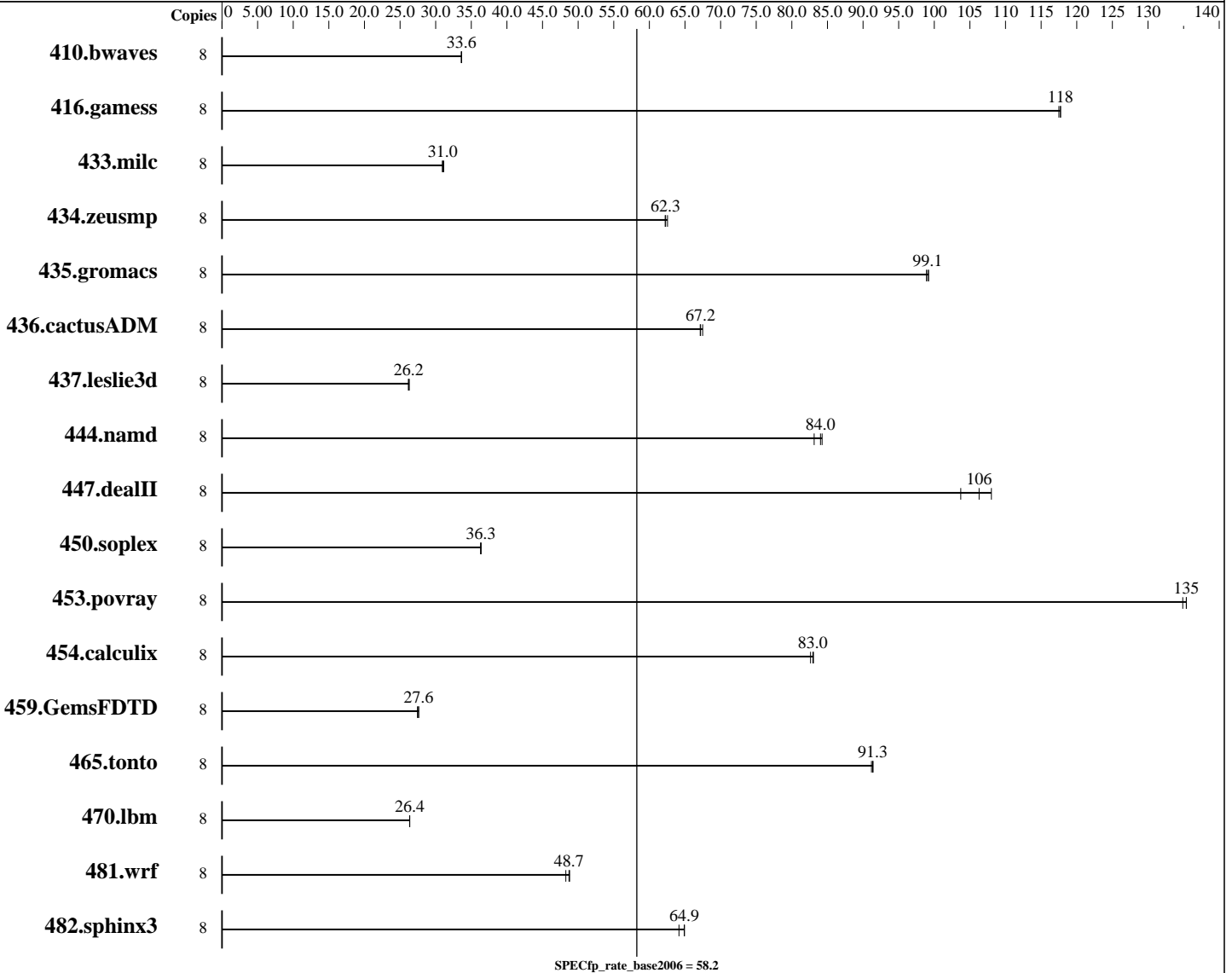
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon E5405  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 1997  
 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, 15000 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	3234	33.6	3233	33.6	<b><u>3234</u></b>	<b><u>33.6</u></b>							
416.gamess	8	1333	117	1331	118	<b><u>1331</u></b>	<b><u>118</u></b>							
433.milc	8	2374	30.9	<b><u>2369</u></b>	<b><u>31.0</u></b>	2359	31.1							
434.zeusmp	8	1170	62.2	<b><u>1169</u></b>	<b><u>62.3</u></b>	1164	62.5							
435.gromacs	8	578	98.9	<b><u>577</u></b>	<b><u>99.1</u></b>	576	99.2							
436.cactusADM	8	<b><u>1423</u></b>	<b><u>67.2</u></b>	1417	67.5	1424	67.1							
437.leslie3d	8	2873	26.2	<b><u>2869</u></b>	<b><u>26.2</u></b>	2860	26.3							
444.namd	8	<b><u>764</u></b>	<b><u>84.0</u></b>	762	84.2	772	83.1							
447.dealII	8	847	108	882	104	<b><u>861</u></b>	<b><u>106</u></b>							
450.soplex	8	1834	36.4	<b><u>1837</u></b>	<b><u>36.3</u></b>	1837	36.3							
453.povray	8	316	135	314	135	<b><u>314</u></b>	<b><u>135</u></b>							
454.calculix	8	799	82.6	795	83.0	<b><u>796</u></b>	<b><u>83.0</u></b>							
459.GemsFDTD	8	3074	27.6	3094	27.4	<b><u>3077</u></b>	<b><u>27.6</u></b>							
465.tonto	8	861	91.4	<b><u>862</u></b>	<b><u>91.3</u></b>	863	91.2							
470.lbm	8	4174	26.3	<b><u>4171</u></b>	<b><u>26.4</u></b>	4170	26.4							
481.wrf	8	1851	48.3	<b><u>1834</u></b>	<b><u>48.7</u></b>	1831	48.8							
482.sphinx3	8	2430	64.2	<b><u>2402</u></b>	<b><u>64.9</u></b>	2402	64.9							

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  
Powersaved daemon was disabled in OS  
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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