



SPEC[®] CFP2006 Result

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IBM Corporation

SPECfp[®]_rate2006 = Not Run

IBM System x3550 (Intel Xeon E5430)

SPECfp_rate_base2006 = 65.2

CPU2006 license: 11

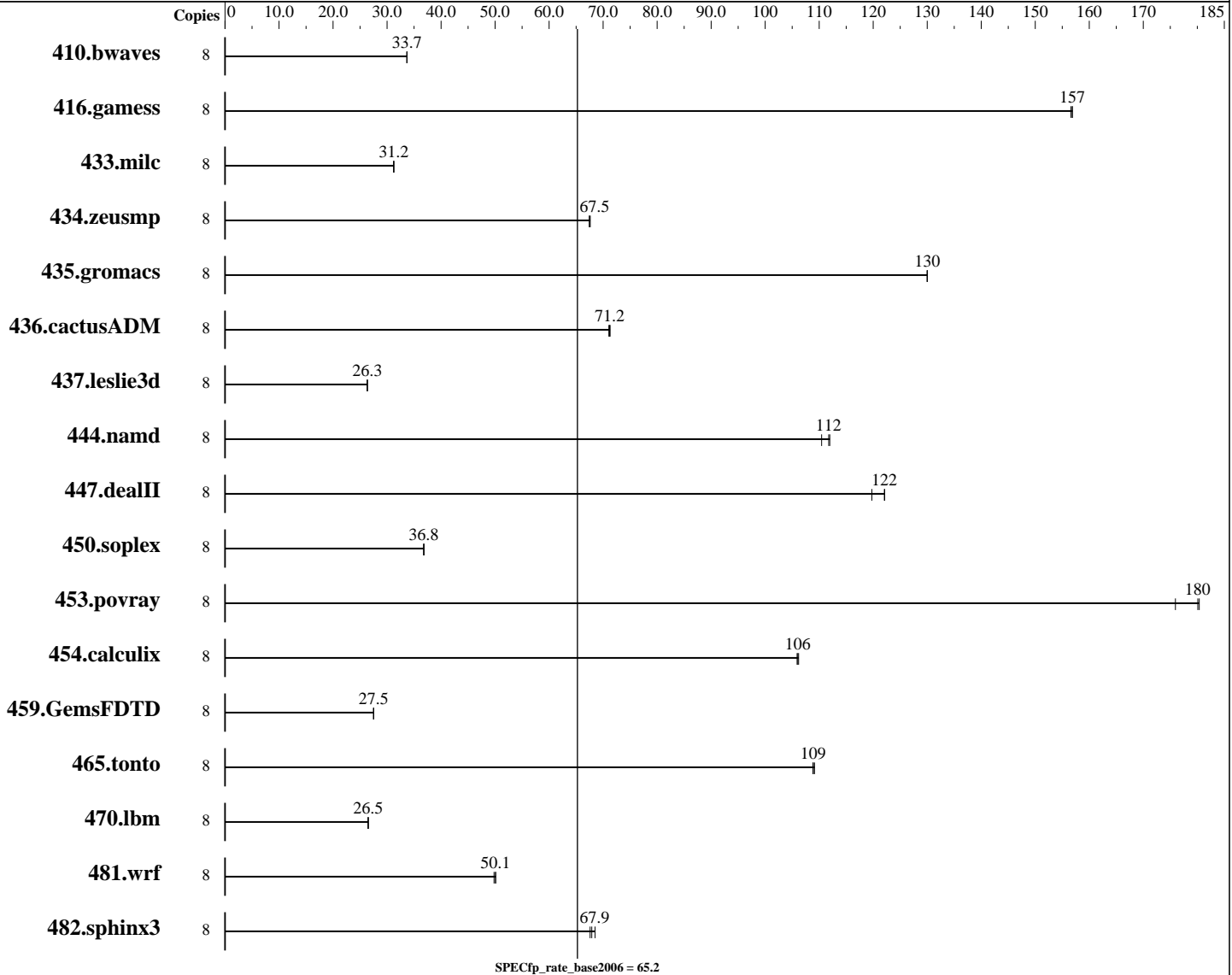
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5430
 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: 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

Continued on next page



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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	3226	33.7	3229	33.7	<u>3229</u>	<u>33.7</u>									
416.gamess	8	<u>999</u>	<u>157</u>	1000	157	999	157									
433.milc	8	2350	31.3	<u>2351</u>	<u>31.2</u>	2352	31.2									
434.zeusmp	8	1079	67.4	<u>1079</u>	<u>67.5</u>	1077	67.6									
435.gromacs	8	439	130	439	130	<u>439</u>	<u>130</u>									
436.cactusADM	8	1345	71.1	1341	71.3	<u>1343</u>	<u>71.2</u>									
437.leslie3d	8	2857	26.3	<u>2854</u>	<u>26.3</u>	2853	26.4									
444.namd	8	581	110	573	112	<u>574</u>	<u>112</u>									
447.dealII	8	749	122	764	120	<u>750</u>	<u>122</u>									
450.soplex	8	1811	36.8	1814	36.8	<u>1814</u>	<u>36.8</u>									
453.povray	8	242	176	236	180	<u>236</u>	<u>180</u>									
454.calculix	8	623	106	622	106	<u>622</u>	<u>106</u>									
459.GemsFDTD	8	3084	27.5	<u>3086</u>	<u>27.5</u>	3087	27.5									
465.tonto	8	721	109	723	109	<u>723</u>	<u>109</u>									
470.lbm	8	<u>4148</u>	<u>26.5</u>	4152	26.5	4143	26.5									
481.wrf	8	<u>1785</u>	<u>50.1</u>	1794	49.8	1783	50.1									
482.sphinx3	8	2276	68.5	2307	67.6	<u>2296</u>	<u>67.9</u>									

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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