



SPEC[®] CFP2006 Result

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IBM Corporation

SPECfp[®]_rate2006 = Not Run

IBM System x3650 (Intel Xeon E5420)

SPECfp_rate_base2006 = 63.5

CPU2006 license: 11

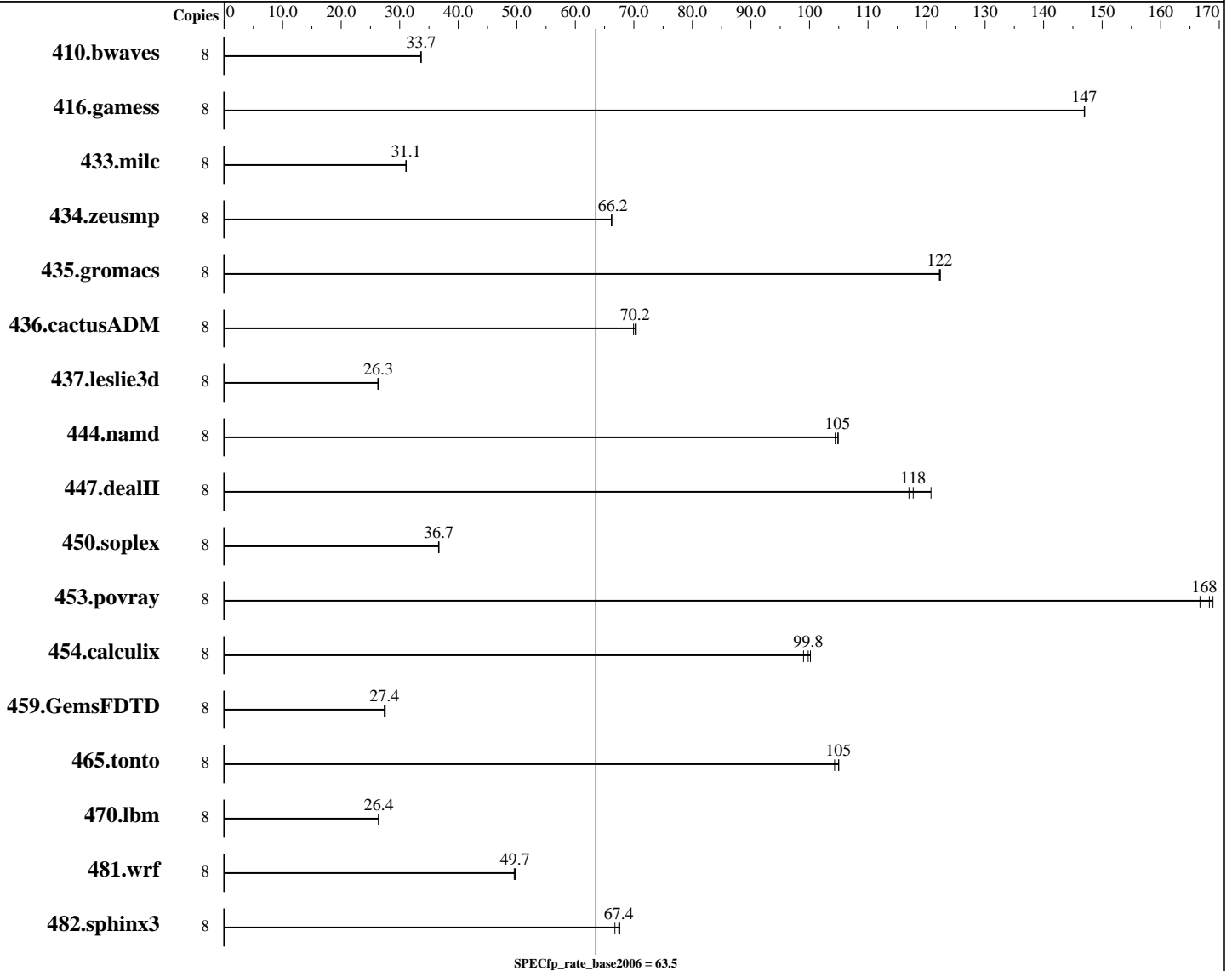
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5420
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2493
 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	<u>3231</u>	<u>33.7</u>	3233	33.6	3231	33.7							
416.gamess	8	1065	147	<u>1066</u>	<u>147</u>	1066	147							
433.milc	8	2360	31.1	<u>2362</u>	<u>31.1</u>	2364	31.1							
434.zeusmp	8	<u>1100</u>	<u>66.2</u>	1099	66.2	1100	66.2							
435.gromacs	8	467	122	<u>467</u>	<u>122</u>	467	122							
436.cactusADM	8	<u>1362</u>	<u>70.2</u>	1367	69.9	1358	70.4							
437.leslie3d	8	2864	26.3	<u>2856</u>	<u>26.3</u>	2853	26.4							
444.namd	8	615	104	612	105	<u>612</u>	<u>105</u>							
447.dealII	8	758	121	<u>777</u>	<u>118</u>	782	117							
450.soplex	8	<u>1819</u>	<u>36.7</u>	1818	36.7	1821	36.6							
453.povray	8	255	167	<u>253</u>	<u>168</u>	252	169							
454.calculix	8	659	100	<u>661</u>	<u>99.8</u>	667	99.0							
459.GemsFDTD	8	3099	27.4	3084	27.5	<u>3098</u>	<u>27.4</u>							
465.tonto	8	750	105	755	104	<u>750</u>	<u>105</u>							
470.lbm	8	<u>4158</u>	<u>26.4</u>	4170	26.4	4155	26.5							
481.wrf	8	1798	49.7	<u>1799</u>	<u>49.7</u>	1803	49.6							
482.sphinx3	8	2307	67.6	2335	66.8	<u>2313</u>	<u>67.4</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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