



SPEC[®] CFP2006 Result

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IBM Corporation

SPECfp[®]_rate2006 = Not Run

IBM System x3650 (Intel Xeon E5430)

SPECfp_rate_base2006 = 65.3

CPU2006 license: 11

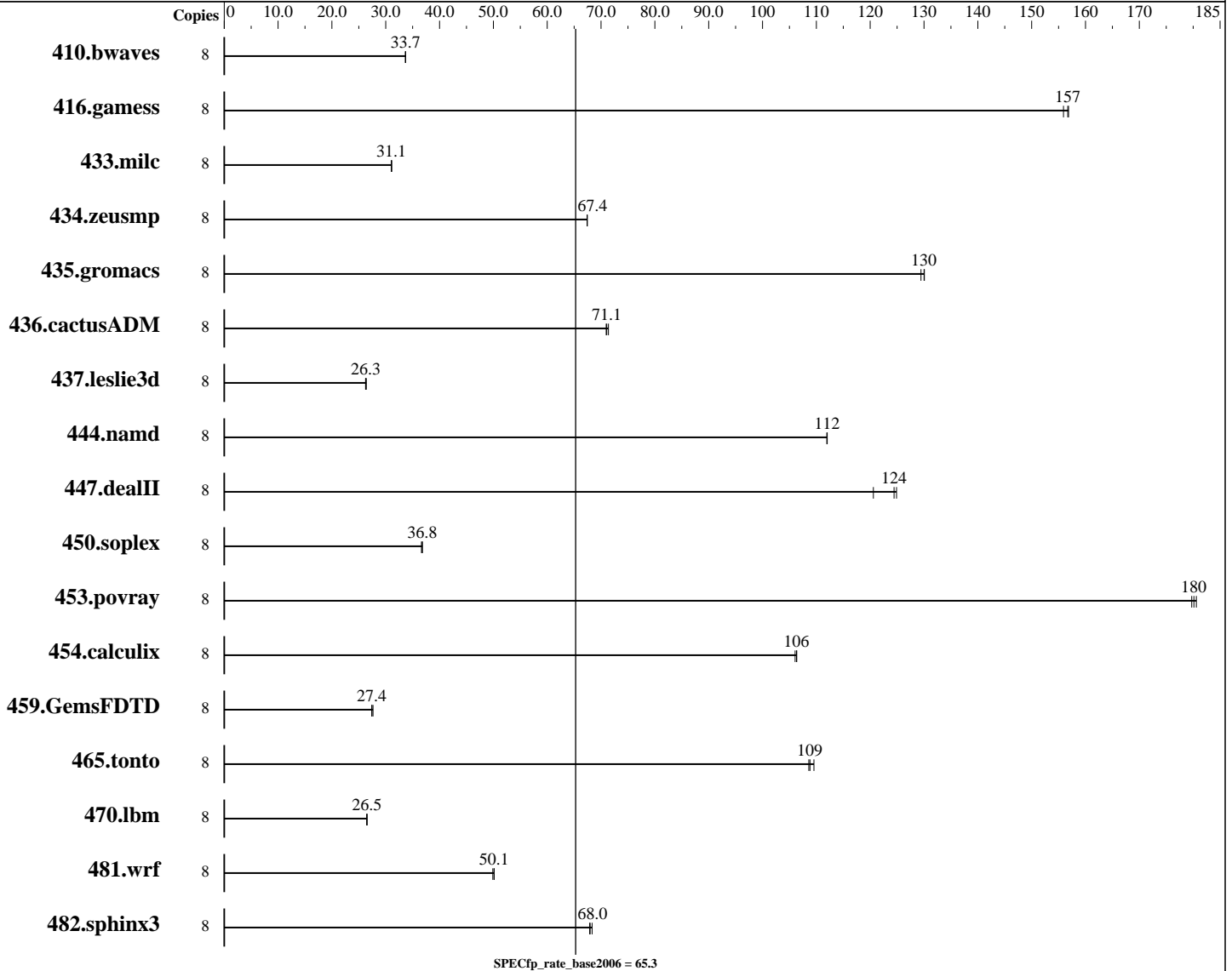
Test sponsor: IBM Corporation

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: 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

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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	3227	33.7	3230	33.7	<u>3228</u>	<u>33.7</u>							
416.gamess	8	1005	156	999	157	<u>1000</u>	<u>157</u>							
433.milc	8	2366	31.0	2361	31.1	<u>2365</u>	<u>31.1</u>							
434.zeusmp	8	1080	67.4	1080	67.4	<u>1080</u>	<u>67.4</u>							
435.gromacs	8	<u>439</u>	<u>130</u>	439	130	441	129							
436.cactusADM	8	1347	71.0	1339	71.4	<u>1345</u>	<u>71.1</u>							
437.leslie3d	8	2864	26.3	<u>2860</u>	<u>26.3</u>	2849	26.4							
444.namd	8	573	112	<u>573</u>	<u>112</u>	573	112							
447.dealII	8	733	125	<u>735</u>	<u>124</u>	759	121							
450.soplex	8	1813	36.8	<u>1813</u>	<u>36.8</u>	1821	36.6							
453.povray	8	236	181	237	180	<u>236</u>	<u>180</u>							
454.calculix	8	621	106	<u>621</u>	<u>106</u>	622	106							
459.GemsFDTD	8	3071	27.6	<u>3094</u>	<u>27.4</u>	3096	27.4							
465.tonto	8	719	110	<u>723</u>	<u>109</u>	725	109							
470.lbm	8	<u>4146</u>	<u>26.5</u>	4153	26.5	4143	26.5							
481.wrf	8	1782	50.1	1791	49.9	<u>1783</u>	<u>50.1</u>							
482.sphinx3	8	2282	68.3	2297	67.9	<u>2294</u>	<u>68.0</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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