



SPEC® CFP2006 Result

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IBM Corporation

SPECfp®_rate2006 = Not Run

IBM System x3650 (Intel Xeon X5450)

SPECfp_rate_base2006 = 68.1

CPU2006 license: 11

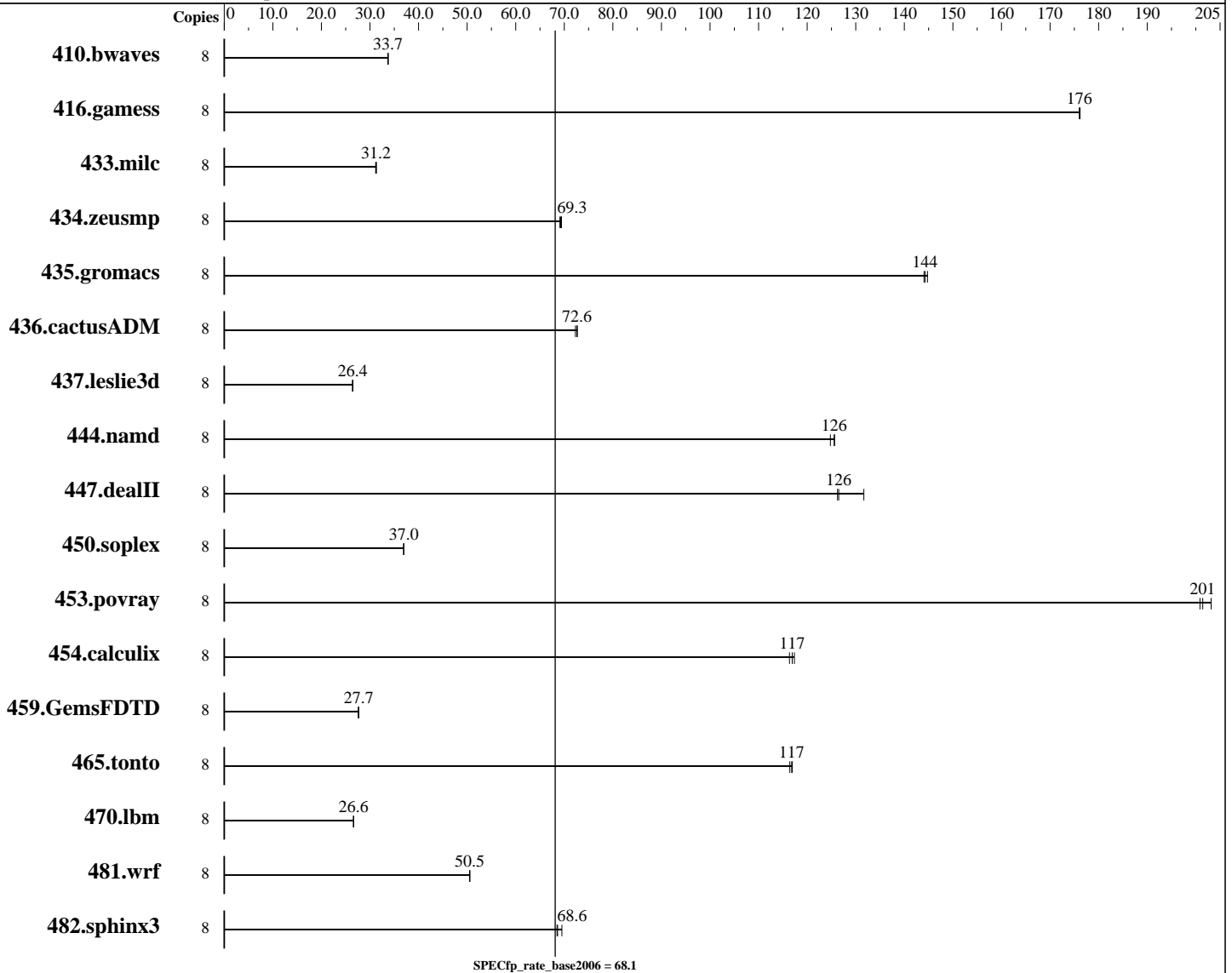
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X5450
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 3000
 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>3223</u>	<u>33.7</u>	3225	33.7	3223	33.7							
416.gamess	8	890	176	<u>890</u>	<u>176</u>	889	176							
433.milc	8	<u>2351</u>	<u>31.2</u>	2344	31.3	2356	31.2							
434.zeusmp	8	1049	69.4	<u>1051</u>	<u>69.3</u>	1054	69.1							
435.gromacs	8	<u>396</u>	<u>144</u>	397	144	395	145							
436.cactusADM	8	<u>1317</u>	<u>72.6</u>	1315	72.7	1322	72.3							
437.leslie3d	8	2838	26.5	2849	26.4	<u>2844</u>	<u>26.4</u>							
444.namd	8	511	126	514	125	<u>511</u>	<u>126</u>							
447.dealII	8	695	132	725	126	<u>723</u>	<u>126</u>							
450.soplex	8	1807	36.9	1804	37.0	<u>1805</u>	<u>37.0</u>							
453.povray	8	209	203	212	201	<u>211</u>	<u>201</u>							
454.calculix	8	562	117	567	116	<u>564</u>	<u>117</u>							
459.GemsFDTD	8	3077	27.6	<u>3067</u>	<u>27.7</u>	3064	27.7							
465.tonto	8	<u>674</u>	<u>117</u>	673	117	676	116							
470.lbm	8	4130	26.6	<u>4129</u>	<u>26.6</u>	4129	26.6							
481.wrf	8	<u>1768</u>	<u>50.5</u>	1769	50.5	1767	50.6							
482.sphinx3	8	2243	69.5	2276	68.5	<u>2272</u>	<u>68.6</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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