



SPEC[®] CFP2006 Result

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IBM Corporation

SPECfp[®]_rate2006 = Not Run

IBM BladeCenter HS21 (Intel Xeon E5450)

SPECfp_rate_base2006 = 67.8

CPU2006 license: 11

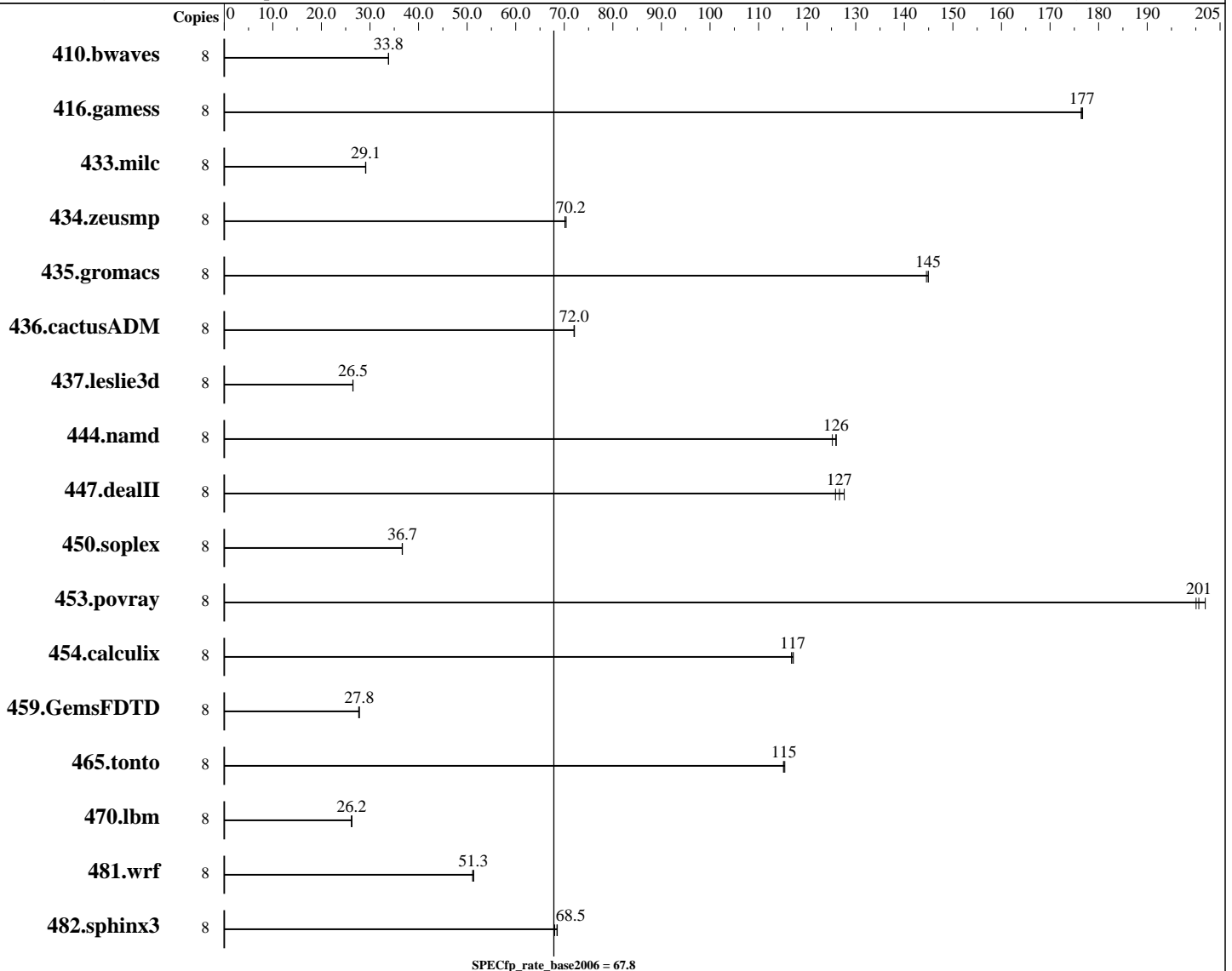
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5450
 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, 10000 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	3216	33.8	<u>3214</u>	<u>33.8</u>	3214	33.8									
416.gamess	8	888	176	<u>887</u>	<u>177</u>	886	177									
433.milc	8	2525	29.1	2520	29.1	<u>2521</u>	<u>29.1</u>									
434.zeusmp	8	1034	70.4	<u>1038</u>	<u>70.2</u>	1038	70.1									
435.gromacs	8	394	145	<u>394</u>	<u>145</u>	395	145									
436.cactusADM	8	<u>1327</u>	<u>72.0</u>	1328	72.0	1326	72.1									
437.leslie3d	8	2837	26.5	2841	26.5	<u>2837</u>	<u>26.5</u>									
444.namd	8	513	125	509	126	<u>510</u>	<u>126</u>									
447.dealII	8	717	128	727	126	<u>723</u>	<u>127</u>									
450.soplex	8	<u>1820</u>	<u>36.7</u>	1822	36.6	1819	36.7									
453.povray	8	<u>212</u>	<u>201</u>	213	200	211	202									
454.calculix	8	563	117	565	117	<u>564</u>	<u>117</u>									
459.GemsFDTD	8	3053	27.8	3067	27.7	<u>3053</u>	<u>27.8</u>									
465.tonto	8	682	115	<u>683</u>	<u>115</u>	684	115									
470.lbm	8	<u>4188</u>	<u>26.2</u>	4201	26.2	4185	26.3									
481.wrf	8	1748	51.1	<u>1743</u>	<u>51.3</u>	1740	51.4									
482.sphinx3	8	2292	68.0	<u>2277</u>	<u>68.5</u>	2274	68.6									

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
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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