



SPEC® CFP2006 Result

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IBM Corporation

SPECfp®_rate2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon E5420)

SPECfp_rate_base2006 = 63.6

CPU2006 license: 11

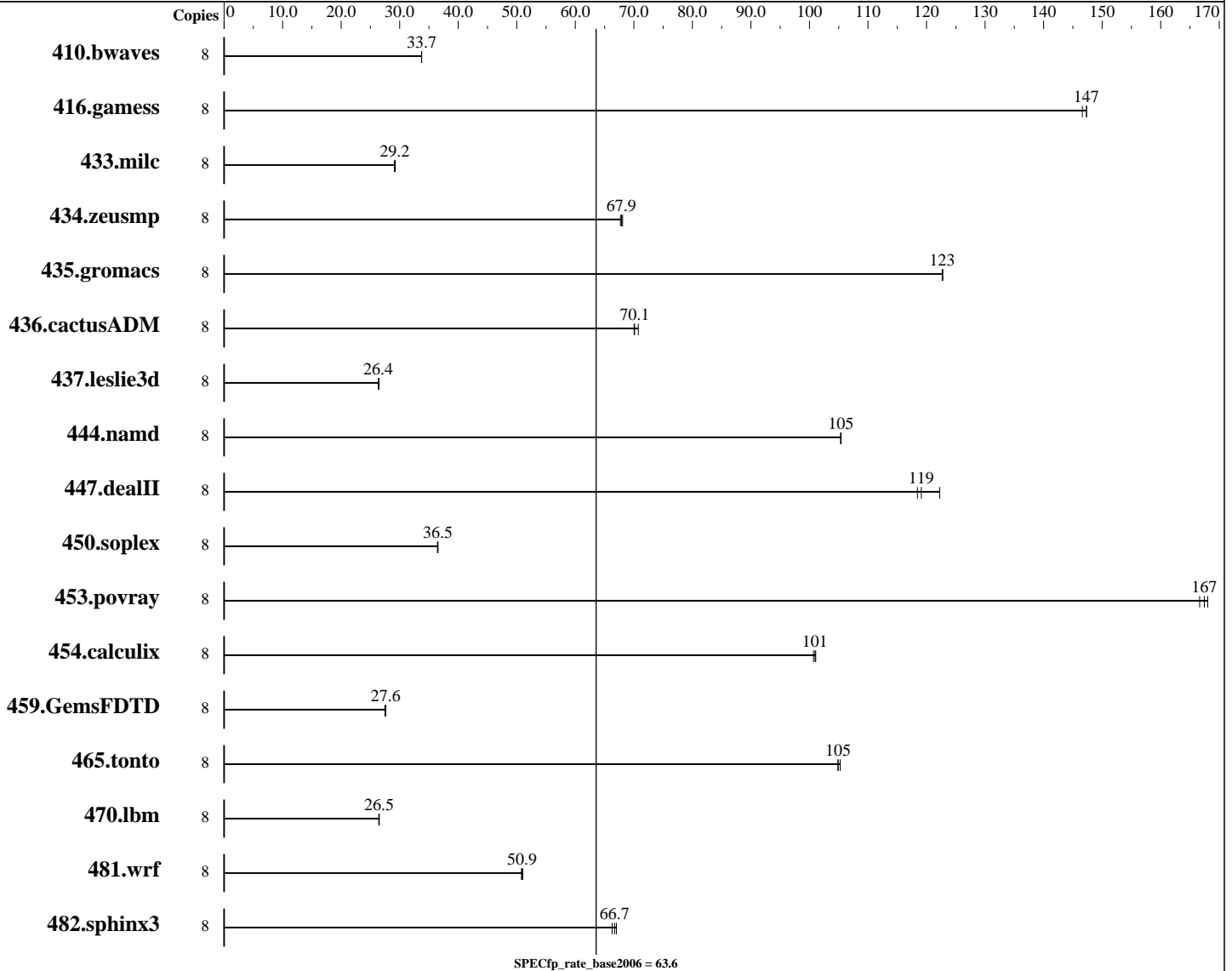
Test sponsor: IBM Corporation

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: 2500
 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	3223	33.7	<u>3222</u>	<u>33.7</u>	3222	33.7							
416.gamess	8	1063	147	1068	147	<u>1063</u>	<u>147</u>							
433.milc	8	<u>2518</u>	<u>29.2</u>	2511	29.2	2524	29.1							
434.zeusmp	8	<u>1072</u>	<u>67.9</u>	1069	68.1	1075	67.7							
435.gromacs	8	<u>465</u>	<u>123</u>	466	123	465	123							
436.cactusADM	8	1365	70.0	1351	70.8	<u>1363</u>	<u>70.1</u>							
437.leslie3d	8	<u>2852</u>	<u>26.4</u>	2853	26.4	2842	26.5							
444.namd	8	609	105	<u>609</u>	<u>105</u>	609	105							
447.dealII	8	749	122	<u>768</u>	<u>119</u>	773	118							
450.soplex	8	1826	36.5	1830	36.5	<u>1828</u>	<u>36.5</u>							
453.povray	8	253	168	255	167	<u>254</u>	<u>167</u>							
454.calculix	8	653	101	655	101	<u>654</u>	<u>101</u>							
459.GemsFDTD	8	<u>3077</u>	<u>27.6</u>	3091	27.5	3072	27.6							
465.tonto	8	748	105	751	105	<u>750</u>	<u>105</u>							
470.lbm	8	<u>4150</u>	<u>26.5</u>	4159	26.4	4147	26.5							
481.wrf	8	1759	50.8	1751	51.0	<u>1755</u>	<u>50.9</u>							
482.sphinx3	8	<u>2337</u>	<u>66.7</u>	2326	67.0	2352	66.3							

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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