



SPEC[®] CFP2006 Result

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IBM Corporation

SPECfp[®]_rate2006 = Not Run

IBM BladeCenter HS21 (Intel Xeon X5460)

SPECfp_rate_base2006 = 69.4

CPU2006 license: 11

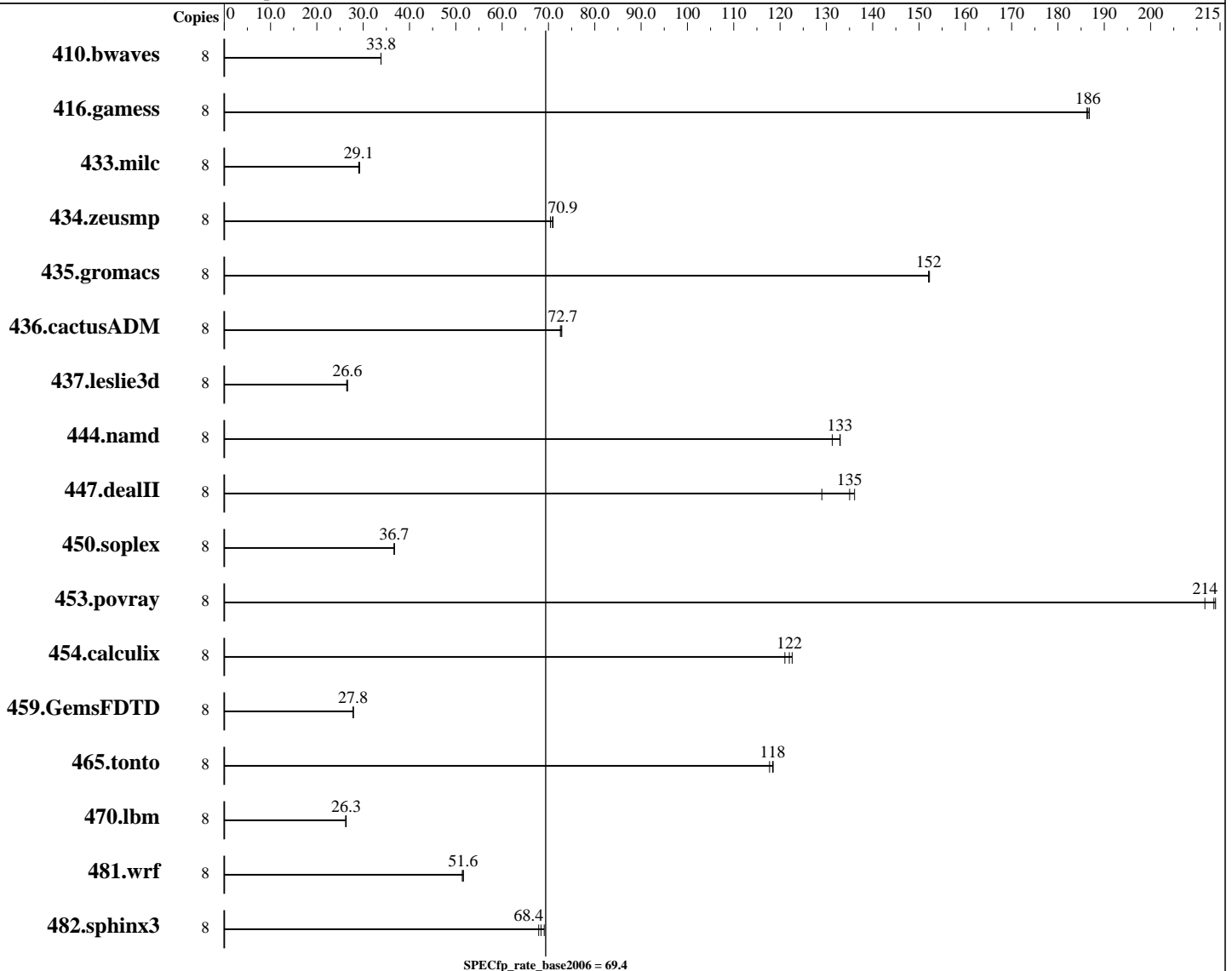
Test date: Nov-2007

Test sponsor: IBM Corporation

Hardware Availability: Jan-2008

Tested by: IBM Corporation

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X5460
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 3158
 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: SLES10 (x86_64), 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
 Peak Pointers: Not Applicable

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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: Memory and I/O Expansion Unit (P/N 42C1600)

Other Software: None
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>3212</u>	<u>33.8</u>	3214	33.8	3212	33.9							
416.gamess	8	<u>840</u>	<u>186</u>	839	187	841	186							
433.milc	8	2511	29.2	<u>2527</u>	<u>29.1</u>	2529	29.0							
434.zeusmp	8	<u>1027</u>	<u>70.9</u>	1025	71.0	1034	70.4							
435.gromacs	8	375	152	376	152	<u>376</u>	<u>152</u>							
436.cactusADM	8	<u>1314</u>	<u>72.7</u>	1312	72.9	1317	72.6							
437.leslie3d	8	2845	26.4	<u>2827</u>	<u>26.6</u>	2827	26.6							
444.namd	8	<u>483</u>	<u>133</u>	489	131	482	133							
447.dealII	8	673	136	709	129	<u>678</u>	<u>135</u>							
450.soplex	8	1817	36.7	1818	36.7	<u>1818</u>	<u>36.7</u>							
453.povray	8	201	212	<u>199</u>	<u>214</u>	199	214							
454.calculix	8	538	123	545	121	<u>541</u>	<u>122</u>							
459.GemsFDTD	8	3051	27.8	3043	27.9	<u>3050</u>	<u>27.8</u>							
465.tonto	8	669	118	664	119	<u>665</u>	<u>118</u>							
470.lbm	8	4196	26.2	<u>4176</u>	<u>26.3</u>	4176	26.3							
481.wrf	8	1730	51.6	<u>1733</u>	<u>51.6</u>	1739	51.4							
482.sphinx3	8	2257	69.1	<u>2280</u>	<u>68.4</u>	2297	67.9							

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 except 450.soplex, 470.lbm and 482.sphinx3, at peak, are compiled in 32-bit mode
Hardware Sector Prefetch Disabled and Adjacent Sector Prefetch Disabled
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to physical,0
KMP_STACKSIZE set to 64M
taskset utility used to bind CPU(s) to processes

Base Compiler Invocation

C benchmarks:
icc

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Base Compiler Invocation (Continued)

C++ benchmarks:
icpc

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



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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.20090714.26.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.20090714.26.xml>

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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