



SPEC[®] CFP2006 Result

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IBM Corporation

SPECfp[®]_rate2006 = Not Run

IBM BladeCenter HS21 (Intel Xeon E5405)

SPECfp_rate_base2006 = 57.9

CPU2006 license: 11

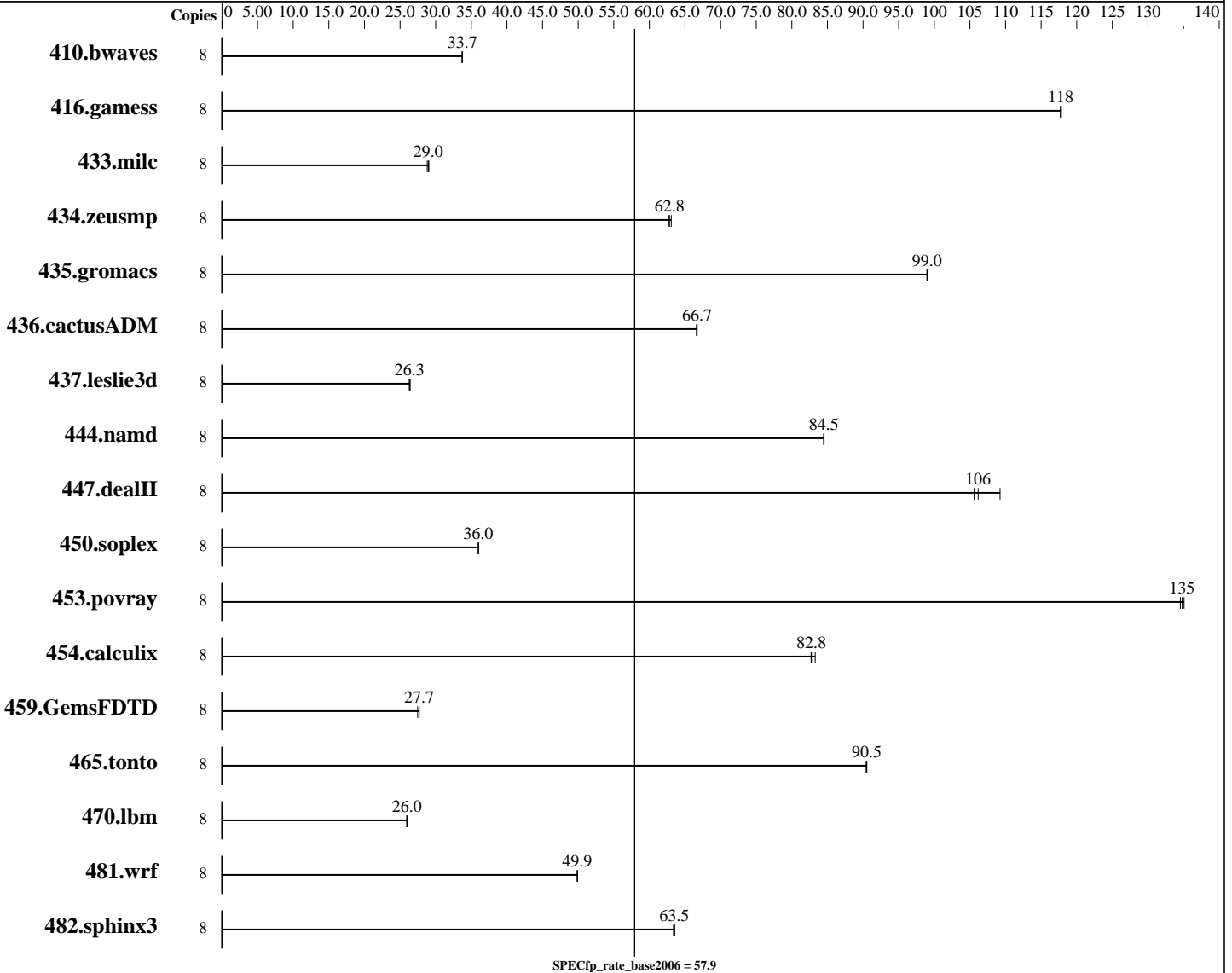
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5405
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2000
 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	<u>3223</u>	<u>33.7</u>	3223	33.7	3225	33.7							
416.gamess	8	1331	118	1329	118	<u>1330</u>	<u>118</u>							
433.milc	8	2529	29.0	2549	28.8	<u>2536</u>	<u>29.0</u>							
434.zeusmp	8	<u>1159</u>	<u>62.8</u>	1160	62.8	1154	63.1							
435.gromacs	8	576	99.1	<u>577</u>	<u>99.0</u>	577	99.0							
436.cactusADM	8	<u>1433</u>	<u>66.7</u>	1433	66.7	1435	66.6							
437.leslie3d	8	2859	26.3	2846	26.4	<u>2856</u>	<u>26.3</u>							
444.namd	8	760	84.5	759	84.5	<u>759</u>	<u>84.5</u>							
447.dealII	8	<u>862</u>	<u>106</u>	867	106	838	109							
450.soplex	8	1854	36.0	1853	36.0	<u>1854</u>	<u>36.0</u>							
453.povray	8	316	135	315	135	<u>316</u>	<u>135</u>							
454.calculix	8	<u>798</u>	<u>82.8</u>	792	83.3	798	82.7							
459.GemsFDTD	8	3090	27.5	<u>3068</u>	<u>27.7</u>	3066	27.7							
465.tonto	8	<u>870</u>	<u>90.5</u>	870	90.5	871	90.4							
470.lbm	8	4235	26.0	4233	26.0	<u>4234</u>	<u>26.0</u>							
481.wrf	8	<u>1792</u>	<u>49.9</u>	1797	49.7	1790	49.9							
482.sphinx3	8	2460	63.4	<u>2455</u>	<u>63.5</u>	2454	63.5							

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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For other inquiries, please contact webmaster@spec.org.

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