



SPEC[®] CFP2006 Result

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IBM Corporation

SPECfp[®]_rate2006 = Not Run

IBM System x3400 (Intel Xeon E5405)

SPECfp_rate_base2006 = 58.0

CPU2006 license: 11

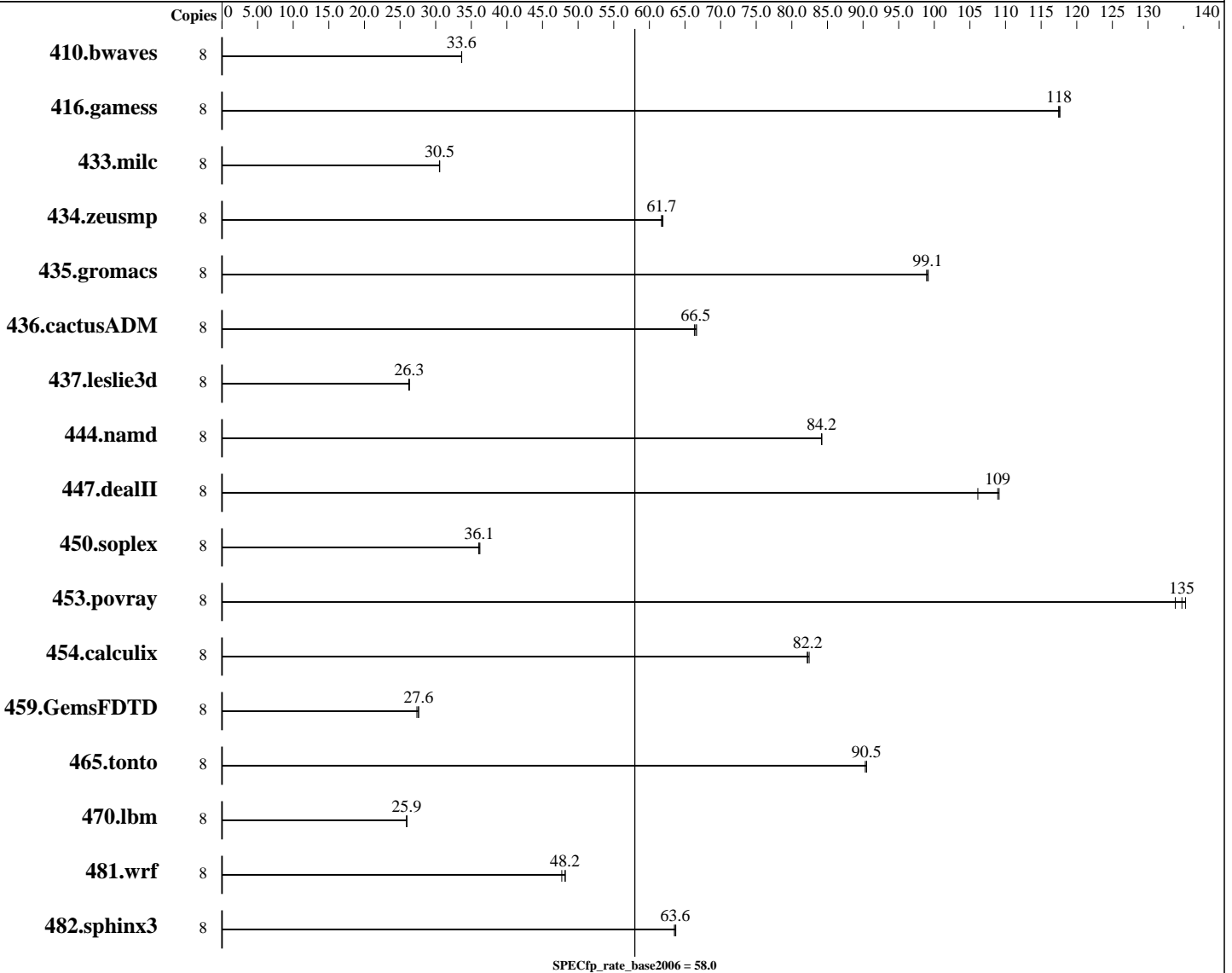
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Mar-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 80 GB SATA, 7200 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	3230	33.7	<u>3232</u>	<u>33.6</u>	3232	33.6							
416.gamess	8	1334	117	1331	118	<u>1333</u>	<u>118</u>							
433.milc	8	2406	30.5	2403	30.6	<u>2404</u>	<u>30.5</u>							
434.zeusmp	8	<u>1179</u>	<u>61.7</u>	1180	61.7	1176	61.9							
435.gromacs	8	<u>577</u>	<u>99.1</u>	577	98.9	576	99.2							
436.cactusADM	8	1435	66.6	<u>1438</u>	<u>66.5</u>	1442	66.3							
437.leslie3d	8	<u>2862</u>	<u>26.3</u>	2869	26.2	2857	26.3							
444.namd	8	762	84.2	762	84.2	<u>762</u>	<u>84.2</u>							
447.dealII	8	<u>840</u>	<u>109</u>	862	106	839	109							
450.soplex	8	1843	36.2	1852	36.0	<u>1847</u>	<u>36.1</u>							
453.povray	8	<u>316</u>	<u>135</u>	318	134	315	135							
454.calculix	8	801	82.4	803	82.2	<u>803</u>	<u>82.2</u>							
459.GemsFDTD	8	3102	27.4	3076	27.6	<u>3076</u>	<u>27.6</u>							
465.tonto	8	870	90.5	872	90.3	<u>870</u>	<u>90.5</u>							
470.lbm	8	4241	25.9	<u>4239</u>	<u>25.9</u>	4239	25.9							
481.wrf	8	1854	48.2	<u>1855</u>	<u>48.2</u>	1873	47.7							
482.sphinx3	8	2447	63.7	2455	63.5	<u>2450</u>	<u>63.6</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
taskset utility used to bind CPU(s) to processes
This result is measured on an IBM System x 3500 Server. Note
that the IBM System x 3500 and IBM System x 3400 are electrically
equivalent.

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.20090713.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.20090713.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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