SPEC® CFP2006 Result

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Fujitsu Siemens Computers

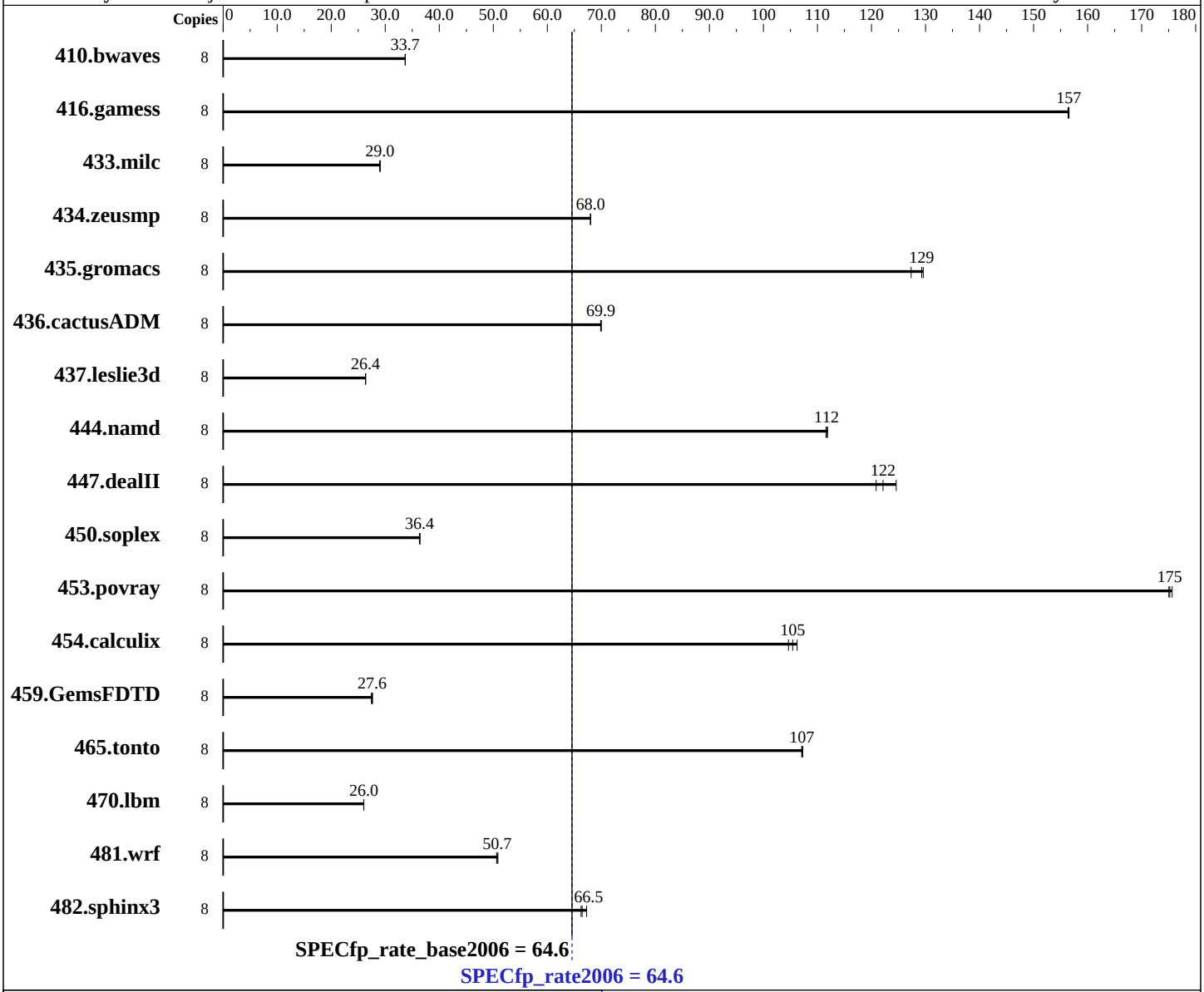
PRIMERGY BX620 S4, Intel Xeon processor E5430, 2.66 GHz

SPECfp®_rate2006 = 64.6

SPECfp_rate_base2006 = 64.6

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Nov-2007
Hardware Availability: Dec-2007
Software Availability: Nov-2007



Hardware

CPU Name:	Intel Xeon E5430
CPU Characteristics:	1333 MHz system bus
CPU MHz:	2667
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) SP1, Kernel 2.6.16.46-0.12-smp
Compiler:	Intel C++ and Fortran Compiler for Linux32 and Linux64 Version 10.1 - Build 20070725
Auto Parallel:	No
File System:	ext2
System State:	Multiuser, Runlevel 3
Base Pointers:	64-bit

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2 GB PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
Disk Subsystem: Seagate ST973451SS (SAS, 73GB, 15000rpm)
Other Hardware: None

Peak Pointers: 64-bit
Other Software: None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	**3226**	**33.7**	3226	33.7	3225	33.7	8	**3226**	**33.7**	3226	33.7	3225	33.7
416.gamess	8	**1001**	**157**	1001	157	1002	156	8	**1001**	**157**	1001	157	1002	156
433.milc	8	2533	29.0	2526	29.1	**2532**	**29.0**	8	2533	29.0	2526	29.1	**2532**	**29.0**
434.zeusmp	8	**1070**	**68.0**	1070	68.0	1071	67.9	8	**1070**	**68.0**	1070	68.0	1071	67.9
435.gromacs	8	441	130	449	127	**442**	**129**	8	441	130	449	127	**442**	**129**
436.cactusADM	8	1368	69.9	**1367**	**69.9**	1366	70.0	8	1368	69.9	**1367**	**69.9**	1366	70.0
437.leslie3d	8	2854	26.3	**2853**	**26.4**	2851	26.4	8	2854	26.3	**2853**	**26.4**	2851	26.4
444.namd	8	575	112	574	112	**574**	**112**	8	575	112	574	112	**574**	**112**
447.dealII	8	757	121	735	125	**749**	**122**	8	757	121	735	125	**749**	**122**
450.soplex	8	1831	36.4	1837	36.3	**1834**	**36.4**	8	1831	36.4	1837	36.3	**1834**	**36.4**
453.povray	8	242	176	243	175	**243**	**175**	8	242	176	243	175	**243**	**175**
454.calculix	8	631	105	**626**	**105**	621	106	8	631	105	**626**	**105**	621	106
459.GemsFDTD	8	3094	27.4	3070	27.7	**3078**	**27.6**	8	3094	27.4	3070	27.7	**3078**	**27.6**
465.tonto	8	**735**	**107**	734	107	735	107	8	**735**	**107**	734	107	735	107
470.lbm	8	4224	26.0	**4223**	**26.0**	4222	26.0	8	4224	26.0	**4223**	**26.0**	4222	26.0
481.wrf	8	1765	50.6	**1762**	**50.7**	1757	50.9	8	1765	50.6	**1762**	**50.7**	1757	50.9
482.sphinx3	8	2318	67.3	2354	66.2	**2346**	**66.5**	8	2318	67.3	2354	66.2	**2346**	**66.5**

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

General Notes

This result has been produced with binaries provided and compiled by Intel.

BIOS configuration:
Hardware Prefetch = Disable, Adjacent Sector Prefetch = Disable

For information about Fujitsu Siemens Computers please see:
http://www.fujitsu-siemens.com

Base Compiler Invocation

C benchmarks:
icc

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

Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes

470.lbm: basepeak = yes

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: basepeak = yes

450.soplex: basepeak = yes

453.povray: basepeak = yes

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

481.wrf: basepeak = yes

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.20090714.05.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.20090714.05.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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