SPEC® CFP2006 Result

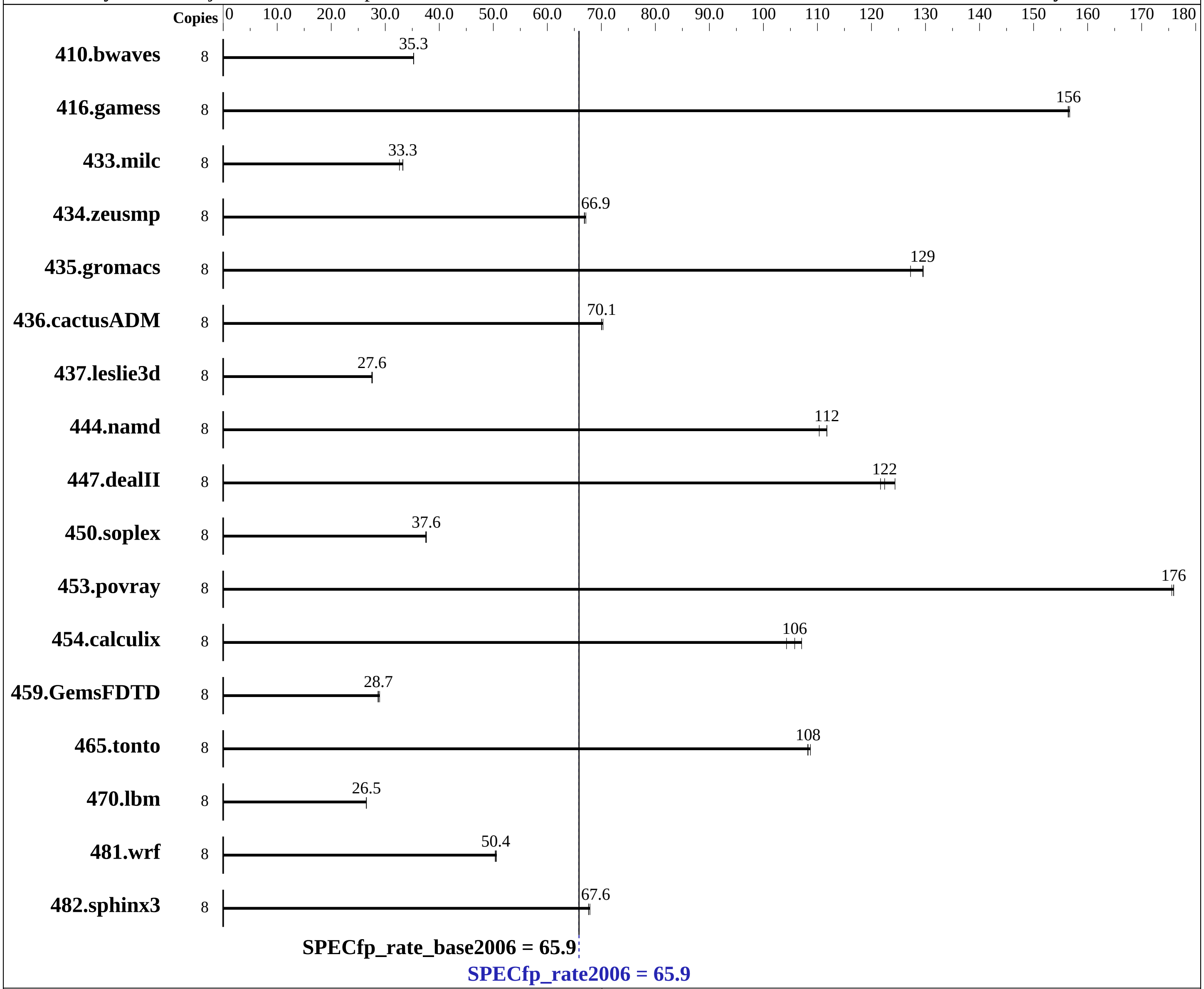
Fujitsu Siemens Computers

PRIMERGY RX200 S4, Intel Xeon processor E5430, 2.66 GHz

SPECfp®_rate2006 = 65.9

SPECfp_rate_base2006 = 65.9

CPU2006 license: 22		**Test date:**	Nov-2007
Test sponsor:	Fujitsu Siemens Computers	**Hardware Availability:**	Dec-2007
Tested by:	Fujitsu Siemens Computers	**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	3084	35.3	**3084**	**35.3**	3083	35.3	8	3084	35.3	**3084**	**35.3**	3083	35.3
416.gamess	8	1002	156	1000	157	**1001**	**156**	8	1002	156	1000	157	**1001**	**156**
433.milc	8	2251	32.6	**2208**	**33.3**	2208	33.3	8	2251	32.6	**2208**	**33.3**	2208	33.3
434.zeusmp	8	1084	67.1	1089	66.8	**1088**	**66.9**	8	1084	67.1	1089	66.8	**1088**	**66.9**
435.gromacs	8	**441**	**129**	449	127	441	130	8	**441**	**129**	449	127	441	130
436.cactusADM	8	1365	70.0	**1365**	**70.1**	1360	70.3	8	1365	70.0	**1365**	**70.1**	1360	70.3
437.leslie3d	8	2722	27.6	2734	27.5	**2729**	**27.6**	8	2722	27.6	2734	27.5	**2729**	**27.6**
444.namd	8	582	110	574	112	**574**	**112**	8	582	110	574	112	**574**	**112**
447.dealII	8	**748**	**122**	736	124	752	122	8	**748**	**122**	736	124	752	122
450.soplex	8	1780	37.5	**1776**	**37.6**	1773	37.6	8	1780	37.5	**1776**	**37.6**	1773	37.6
453.povray	8	242	176	**242**	**176**	242	176	8	242	176	**242**	**176**	242	176
454.calculix	8	**624**	**106**	633	104	616	107	8	**624**	**106**	633	104	616	107
459.GemsFDTD	8	2931	29.0	2962	28.7	**2953**	**28.7**	8	2931	29.0	2962	28.7	**2953**	**28.7**
465.tonto	8	724	109	**727**	**108**	728	108	8	724	109	**727**	**108**	728	108
470.lbm	8	4148	26.5	**4145**	**26.5**	4143	26.5	8	4148	26.5	**4145**	**26.5**	4143	26.5
481.wrf	8	1775	50.4	**1771**	**50.4**	1766	50.6	8	1775	50.4	**1771**	**50.4**	1766	50.6
482.sphinx3	8	2297	67.9	**2305**	**67.6**	2306	67.6	8	2297	67.9	**2305**	**67.6**	2306	67.6

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

Operating System Notes

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

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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
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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

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

Tested with SPEC CPU2006 v1.0.
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