



SPEC[®] CFP2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX300 S4, Intel Xeon processor E5440,
2.83 GHz

SPECfp[®]_rate2006 = 67.6

SPECfp_rate_base2006 = 67.6

CPU2006 license: 22

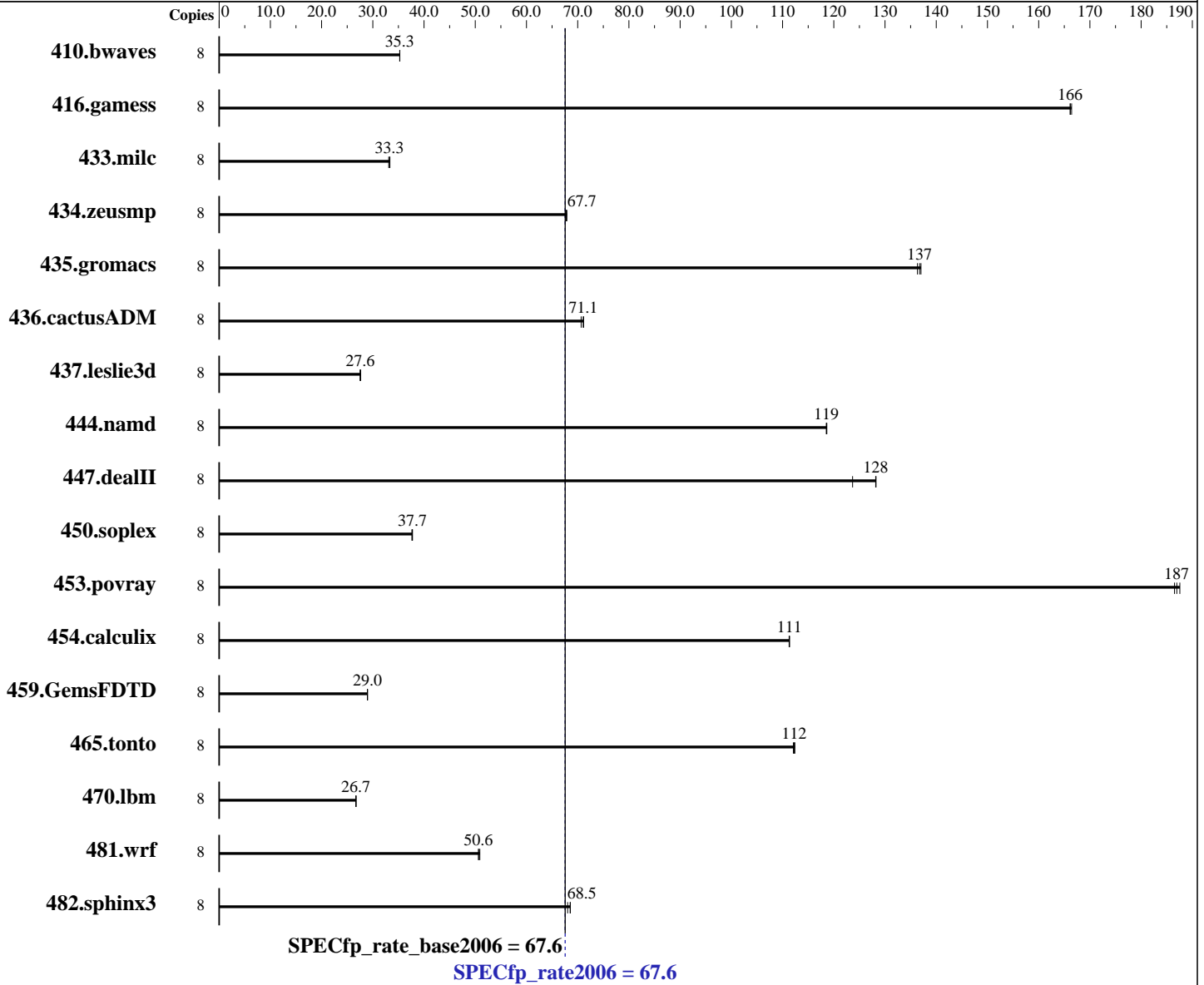
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Oct-2007

Hardware Availability: Dec-2007

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5440
 CPU Characteristics: 1333 MHz system bus
 CPU MHz: 2833
 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	3083	35.3	3082	35.3	3084	35.3	8	3083	35.3	3082	35.3	3084	35.3
416.gamess	8	943	166	943	166	941	166	8	943	166	943	166	941	166
433.milc	8	2218	33.1	2209	33.3	2203	33.3	8	2218	33.1	2209	33.3	2203	33.3
434.zeusmp	8	1072	67.9	1075	67.7	1075	67.7	8	1072	67.9	1075	67.7	1075	67.7
435.gromacs	8	417	137	419	136	418	137	8	417	137	419	136	418	137
436.cactusADM	8	1353	70.7	1345	71.1	1344	71.2	8	1353	70.7	1345	71.1	1344	71.2
437.leslie3d	8	2732	27.5	2729	27.6	2721	27.6	8	2732	27.5	2729	27.6	2721	27.6
444.namd	8	541	119	541	119	541	119	8	541	119	541	119	541	119
447.dealII	8	714	128	714	128	740	124	8	714	128	714	128	740	124
450.soplex	8	1769	37.7	1773	37.6	1768	37.7	8	1769	37.7	1773	37.6	1768	37.7
453.povray	8	228	187	228	187	227	188	8	228	187	228	187	227	188
454.calculix	8	593	111	593	111	593	111	8	593	111	593	111	593	111
459.GemsFDTD	8	2932	29.0	2933	28.9	2930	29.0	8	2932	29.0	2933	28.9	2930	29.0
465.tonto	8	700	112	702	112	701	112	8	700	112	702	112	701	112
470.lbm	8	4117	26.7	4115	26.7	4113	26.7	8	4117	26.7	4115	26.7	4113	26.7
481.wrf	8	1764	50.6	1764	50.6	1756	50.9	8	1764	50.6	1764	50.6	1756	50.9
482.sphinx3	8	2274	68.6	2275	68.5	2292	68.0	8	2274	68.6	2275	68.5	2292	68.0

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>



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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



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Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes

470.lbm: basepeak = yes

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: basepeak = yes

447.dealIII: 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 other inquiries, please contact webmaster@spec.org.

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