



SPEC[®] CFP2006 Result

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Fujitsu Siemens Computers

PRIMERGY BX620 S4, Intel Xeon processor E5440,
2.83 GHz

SPECfp[®]_rate2006 = 66.0

SPECfp_rate_base2006 = 66.0

CPU2006 license: 22

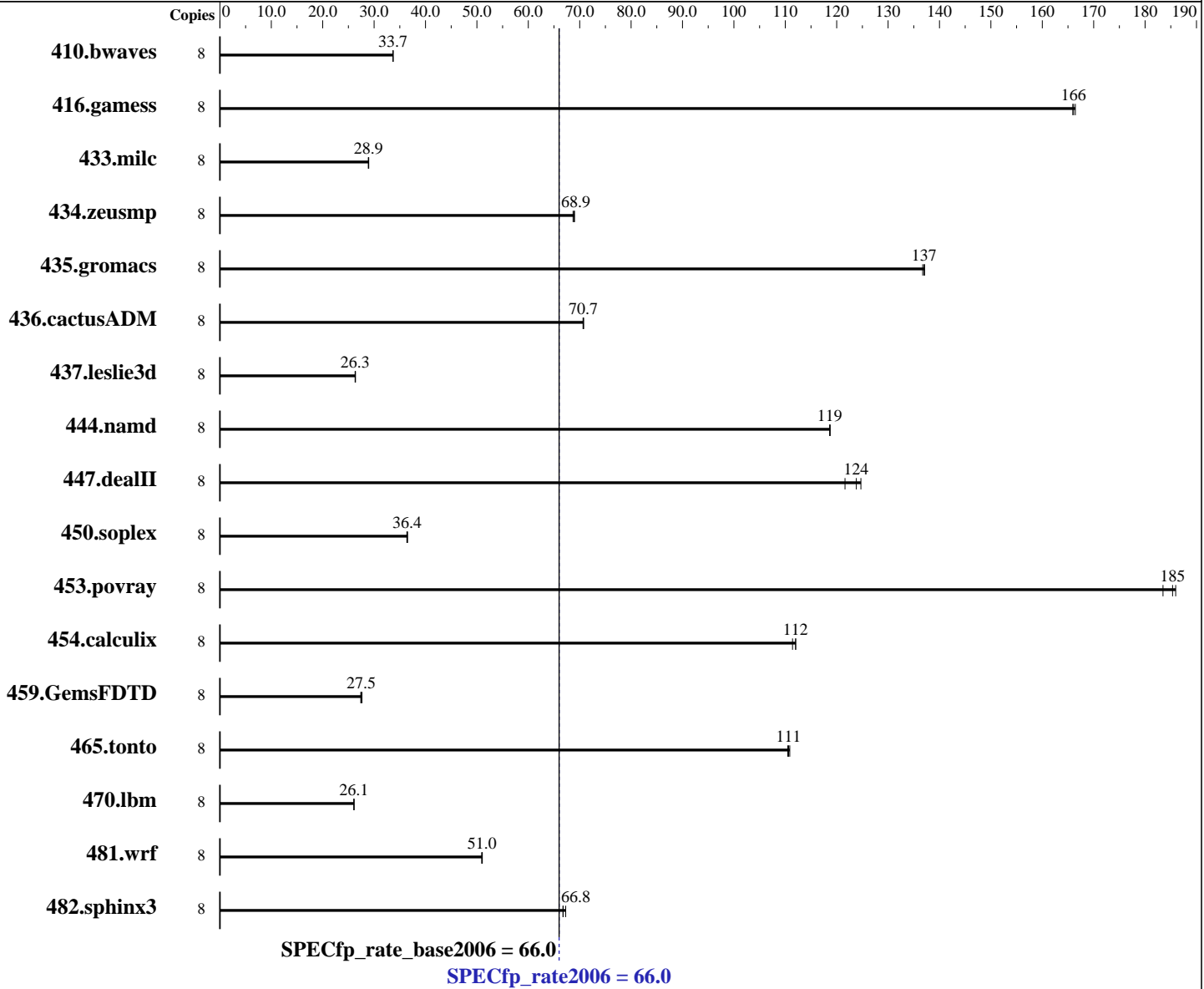
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Nov-2007

Hardware Availability: Dec-2007

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon 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	<u>3227</u>	<u>33.7</u>	3227	33.7	3228	33.7	8	<u>3227</u>	<u>33.7</u>	3227	33.7	3228	33.7
416.gamess	8	941	166	944	166	<u>943</u>	<u>166</u>	8	941	166	944	166	<u>943</u>	<u>166</u>
433.milc	8	2543	28.9	2536	29.0	<u>2540</u>	<u>28.9</u>	8	2543	28.9	2536	29.0	<u>2540</u>	<u>28.9</u>
434.zeusmp	8	<u>1056</u>	<u>68.9</u>	1060	68.7	1055	69.0	8	<u>1056</u>	<u>68.9</u>	1060	68.7	1055	69.0
435.gromacs	8	417	137	418	137	<u>417</u>	<u>137</u>	8	417	137	418	137	<u>417</u>	<u>137</u>
436.cactusADM	8	1351	70.8	<u>1352</u>	<u>70.7</u>	1353	70.7	8	1351	70.8	<u>1352</u>	<u>70.7</u>	1353	70.7
437.leslie3d	8	2850	26.4	2859	26.3	<u>2856</u>	<u>26.3</u>	8	2850	26.4	2859	26.3	<u>2856</u>	<u>26.3</u>
444.namd	8	541	119	540	119	<u>541</u>	<u>119</u>	8	541	119	540	119	<u>541</u>	<u>119</u>
447.dealII	8	734	125	753	122	<u>739</u>	<u>124</u>	8	734	125	753	122	<u>739</u>	<u>124</u>
450.soplex	8	1827	36.5	1834	36.4	<u>1832</u>	<u>36.4</u>	8	1827	36.5	1834	36.4	<u>1832</u>	<u>36.4</u>
453.povray	8	229	186	<u>230</u>	<u>185</u>	232	183	8	229	186	<u>230</u>	<u>185</u>	232	183
454.calculix	8	592	111	589	112	<u>589</u>	<u>112</u>	8	592	111	589	112	<u>589</u>	<u>112</u>
459.GemsFDTD	8	<u>3085</u>	<u>27.5</u>	3097	27.4	3071	27.6	8	<u>3085</u>	<u>27.5</u>	3097	27.4	3071	27.6
465.tonto	8	713	110	<u>711</u>	<u>111</u>	710	111	8	713	110	<u>711</u>	<u>111</u>	710	111
470.lbm	8	4216	26.1	4214	26.1	<u>4214</u>	<u>26.1</u>	8	4216	26.1	4214	26.1	<u>4214</u>	<u>26.1</u>
481.wrf	8	<u>1752</u>	<u>51.0</u>	1750	51.1	1755	50.9	8	<u>1752</u>	<u>51.0</u>	1750	51.1	1755	50.9
482.sphinx3	8	<u>2335</u>	<u>66.8</u>	2336	66.7	2317	67.3	8	<u>2335</u>	<u>66.8</u>	2336	66.7	2317	67.3

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

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