SPEC® CFP2006 Result

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Fujitsu Siemens Computers

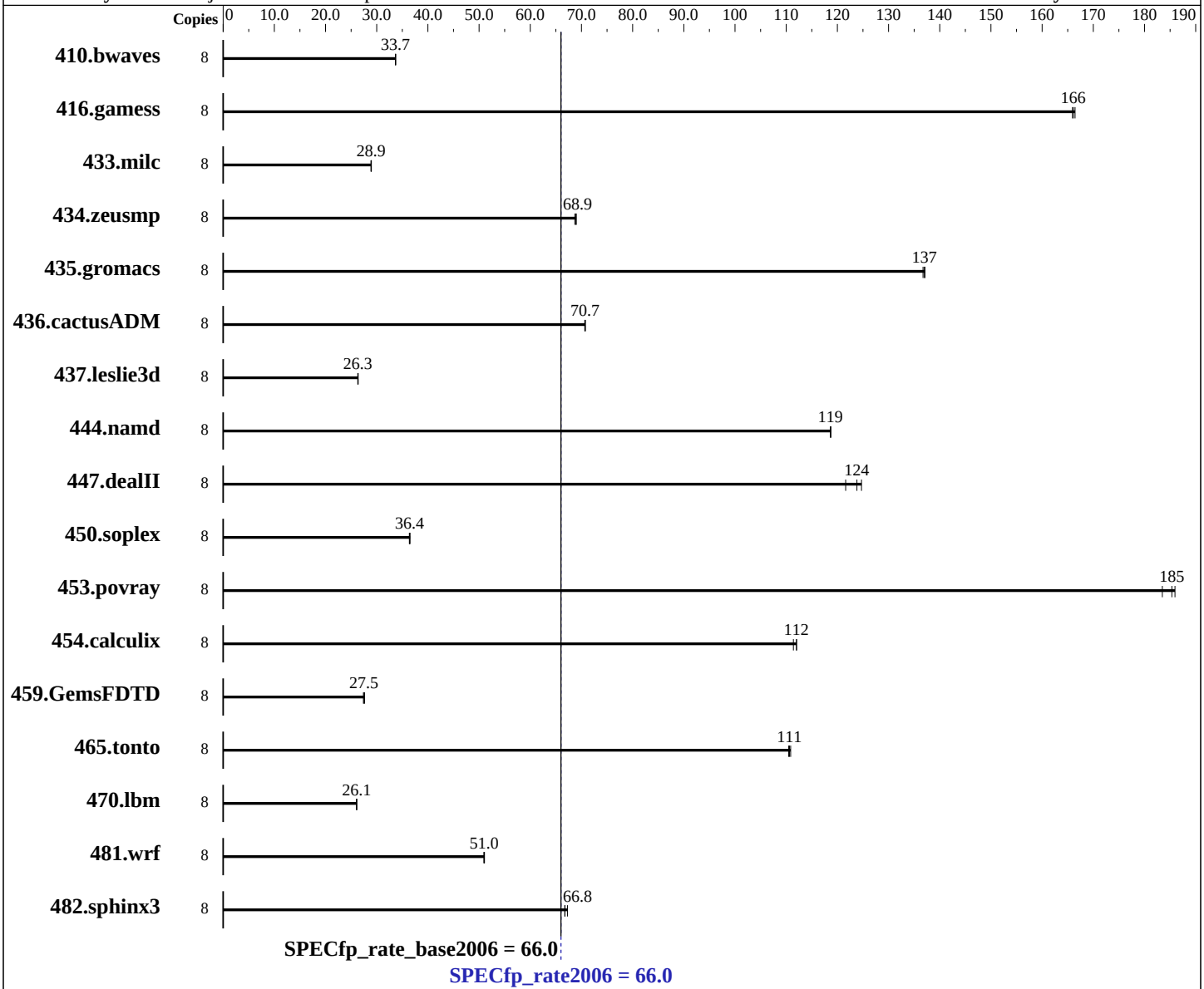
PRIMERGY BX620 S4, Intel Xeon processor E5440, 2.83 GHz

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

Continued on next page

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

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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