SPEC® CFP2006 Result

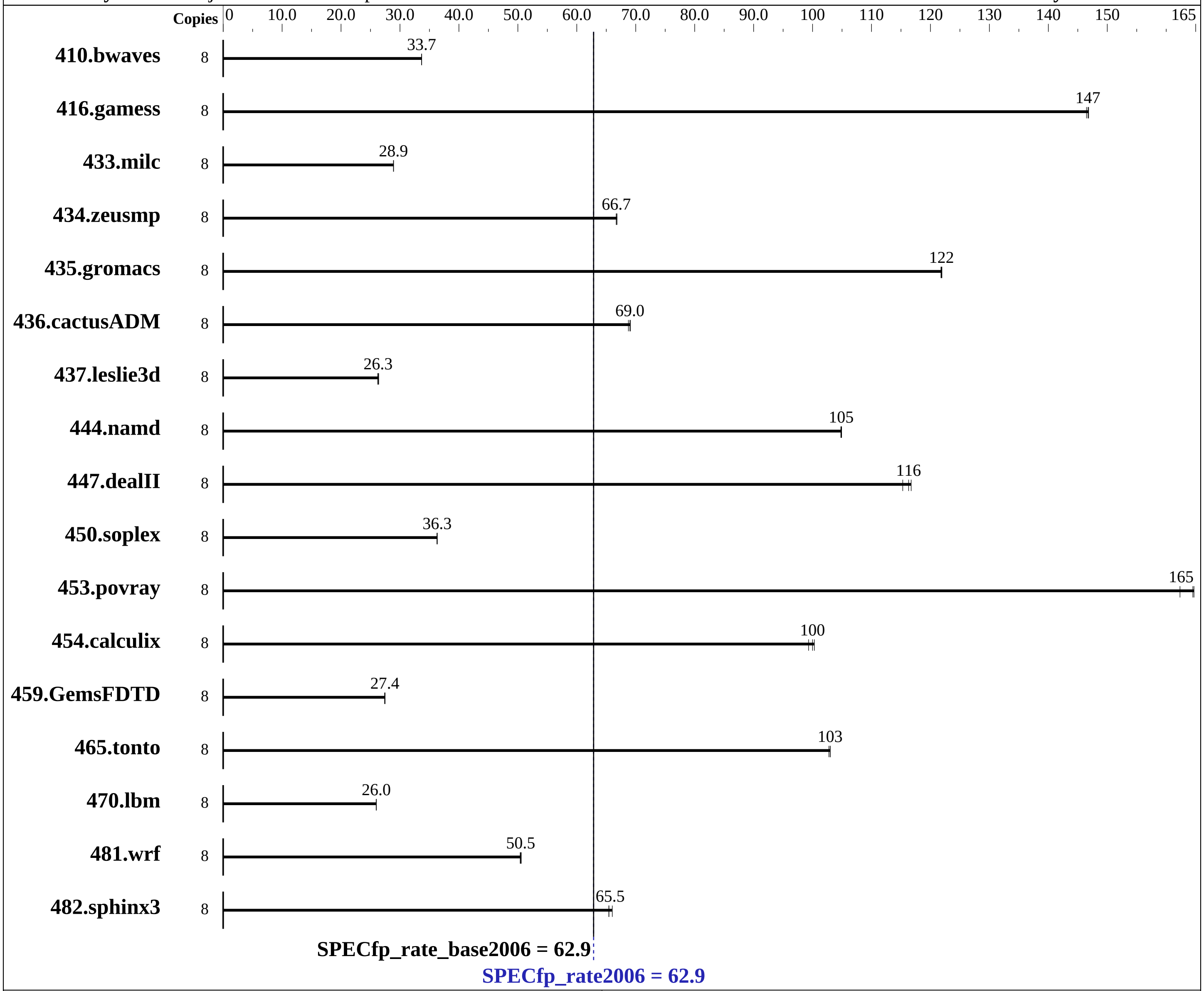
Fujitsu Siemens Computers

PRIMERGY BX620 S4, Intel Xeon processor E5420, 2.50 GHz

SPECfp®_rate2006 = 62.9

SPECfp_rate_base2006 = 62.9

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 E5420
CPU Characteristics:	1333 MHz system bus
CPU MHz:	2500
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	3228	33.7	**3228**	**33.7**	3227	33.7	8	3228	33.7	**3228**	**33.7**	3227	33.7
416.gamess	8	1067	147	1069	146	**1068**	**147**	8	1067	147	1069	146	**1068**	**147**
433.milc	8	**2541**	**28.9**	2541	28.9	2540	28.9	8	**2541**	**28.9**	2541	28.9	2540	28.9
434.zeusmp	8	1092	66.7	**1091**	**66.7**	1089	66.8	8	1092	66.7	**1091**	**66.7**	1089	66.8
435.gromacs	8	469	122	468	122	**469**	**122**	8	469	122	468	122	**469**	**122**
436.cactusADM	8	1391	68.8	**1385**	**69.0**	1384	69.1	8	1391	68.8	**1385**	**69.0**	1384	69.1
437.leslie3d	8	2867	26.2	**2860**	**26.3**	2850	26.4	8	2867	26.2	**2860**	**26.3**	2850	26.4
444.namd	8	612	105	**612**	**105**	611	105	8	612	105	**612**	**105**	611	105
447.dealII	8	**787**	**116**	794	115	784	117	8	**787**	**116**	794	115	784	117
450.soplex	8	**1837**	**36.3**	1840	36.3	1837	36.3	8	**1837**	**36.3**	1840	36.3	1837	36.3
453.povray	8	262	162	258	165	**259**	**165**	8	262	162	258	165	**259**	**165**
454.calculix	8	665	99.3	658	100	**660**	**100**	8	665	99.3	658	100	**660**	**100**
459.GemsFDTD	8	3089	27.5	3099	27.4	**3093**	**27.4**	8	3089	27.5	3099	27.4	**3093**	**27.4**
465.tonto	8	**764**	**103**	766	103	764	103	8	**764**	**103**	766	103	764	103
470.lbm	8	4232	26.0	4229	26.0	**4229**	**26.0**	8	4232	26.0	4229	26.0	**4229**	**26.0**
481.wrf	8	1767	50.6	**1770**	**50.5**	1773	50.4	8	1767	50.6	**1770**	**50.5**	1773	50.4
482.sphinx3	8	**2382**	**65.5**	2383	65.4	2362	66.0	8	**2382**	**65.5**	2383	65.4	2362	66.0

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

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.

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