



# SPEC<sup>®</sup> CFP2006 Result

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## Fujitsu Siemens Computers

PRIMERGY BX620 S4, Intel Xeon processor E5420,  
2.50 GHz

**SPECfp<sup>®</sup>\_rate2006 = 62.9**

**SPECfp\_rate\_base2006 = 62.9**

CPU2006 license: 22

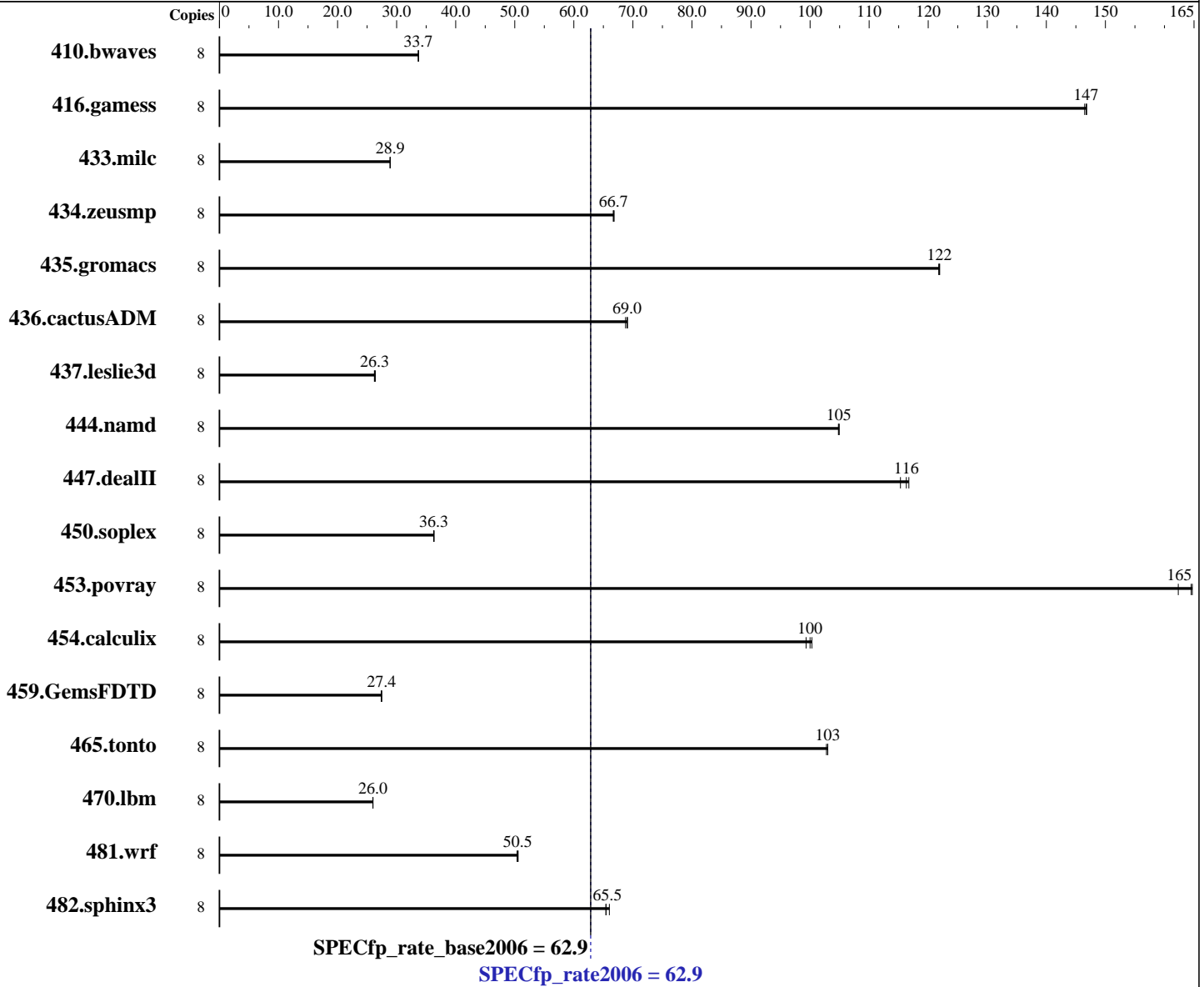
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Nov-2007

Hardware Availability: Dec-2007

Software Availability: Nov-2007



### Hardware

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



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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](mailto:webmaster@spec.org).

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