



# SPEC® CFP2006 Result

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## Fujitsu Siemens Computers

PRIMERGY RX300 S4, Intel Xeon processor E5430,  
2.66 GHz

SPECfp®\_rate2006 = 65.3

SPECfp\_rate\_base2006 = 65.3

CPU2006 license: 22

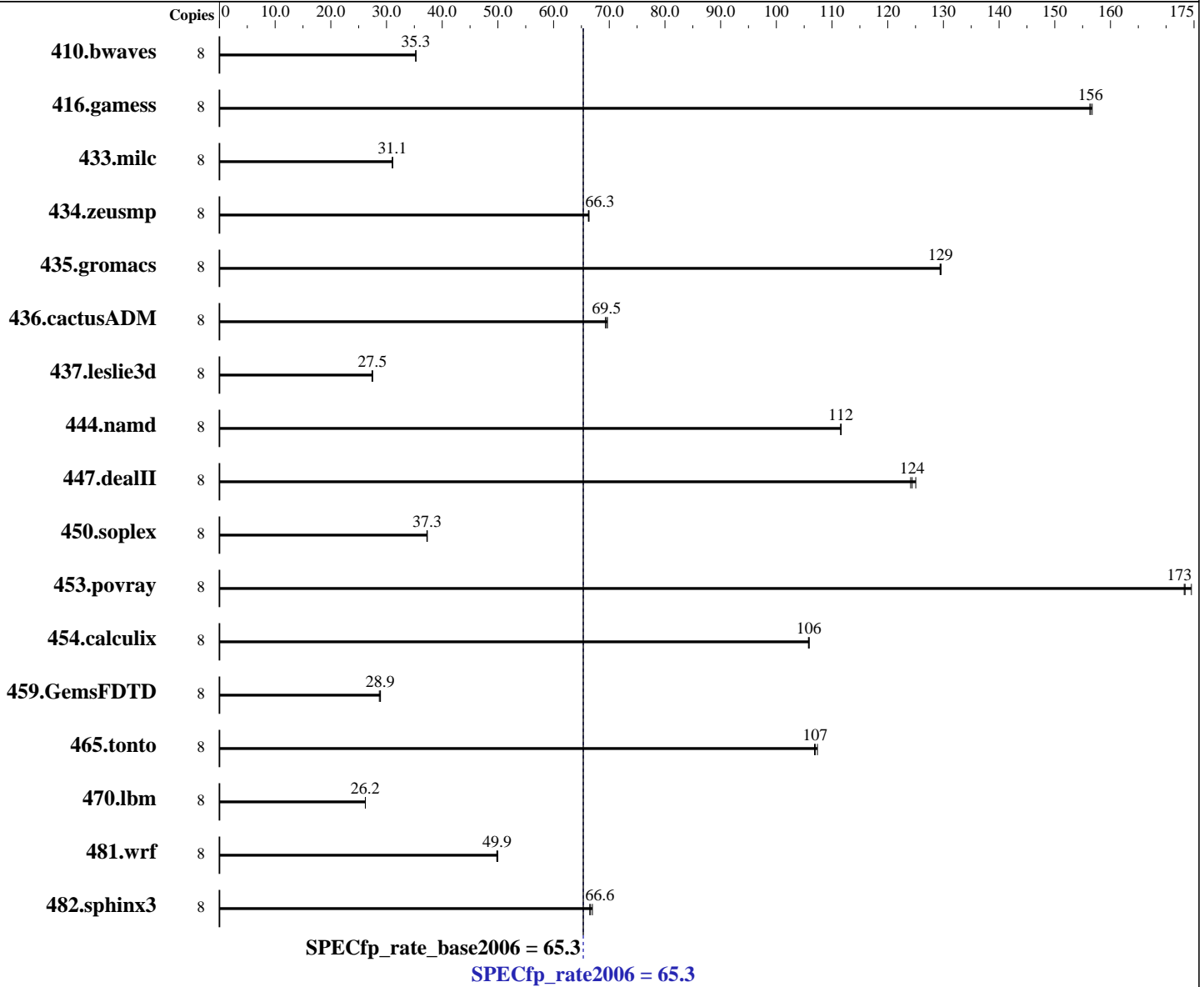
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Oct-2007

Hardware Availability: Dec-2007

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon E5430  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 2667  
 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	3084	35.2	<b>3082</b>	<b>35.3</b>	3082	35.3	8	3084	35.2	<b>3082</b>	<b>35.3</b>	3082	35.3		
416.gamess	8	1002	156	999	157	<b>1001</b>	<b>156</b>	8	1002	156	999	157	<b>1001</b>	<b>156</b>		
433.milc	8	2360	31.1	2366	31.0	<b>2363</b>	<b>31.1</b>	8	2360	31.1	2366	31.0	<b>2363</b>	<b>31.1</b>		
434.zeusmp	8	1097	66.4	<b>1098</b>	<b>66.3</b>	1099	66.2	8	1097	66.4	<b>1098</b>	<b>66.3</b>	1099	66.2		
435.gromacs	8	441	130	<b>441</b>	<b>129</b>	441	129	8	441	130	<b>441</b>	<b>129</b>	441	129		
436.cactusADM	8	<b>1375</b>	<b>69.5</b>	1372	69.7	1379	69.3	8	<b>1375</b>	<b>69.5</b>	1372	69.7	1379	69.3		
437.leslie3d	8	2746	27.4	2735	27.5	<b>2737</b>	<b>27.5</b>	8	2746	27.4	2735	27.5	<b>2737</b>	<b>27.5</b>		
444.namd	8	575	112	<b>575</b>	<b>112</b>	575	112	8	575	112	<b>575</b>	<b>112</b>	575	112		
447.dealII	8	732	125	737	124	<b>736</b>	<b>124</b>	8	732	125	737	124	<b>736</b>	<b>124</b>		
450.soplex	8	1791	37.2	1788	37.3	<b>1788</b>	<b>37.3</b>	8	1791	37.2	1788	37.3	<b>1788</b>	<b>37.3</b>		
453.povray	8	<b>245</b>	<b>173</b>	244	175	246	173	8	<b>245</b>	<b>173</b>	244	175	246	173		
454.calculix	8	623	106	624	106	<b>624</b>	<b>106</b>	8	623	106	624	106	<b>624</b>	<b>106</b>		
459.GemsFDTD	8	2935	28.9	<b>2940</b>	<b>28.9</b>	2957	28.7	8	2935	28.9	<b>2940</b>	<b>28.9</b>	2957	28.7		
465.tonto	8	733	107	737	107	<b>736</b>	<b>107</b>	8	733	107	737	107	<b>736</b>	<b>107</b>		
470.lbm	8	4196	26.2	<b>4195</b>	<b>26.2</b>	4194	26.2	8	4196	26.2	<b>4195</b>	<b>26.2</b>	4194	26.2		
481.wrf	8	1788	50.0	<b>1792</b>	<b>49.9</b>	1794	49.8	8	1788	50.0	<b>1792</b>	<b>49.9</b>	1794	49.8		
482.sphinx3	8	<b>2340</b>	<b>66.6</b>	2328	67.0	2345	66.5	8	<b>2340</b>	<b>66.6</b>	2328	67.0	2345	66.5		

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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