



# SPEC® CFP2006 Result

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## Fujitsu Siemens Computers

PRIMERGY TX300 S3, Intel Xeon processor 5160, 3.0 GHz

SPECfp®\_rate2006 = 45.5

SPECfp\_rate\_base2006 = 43.9

CPU2006 license: 22

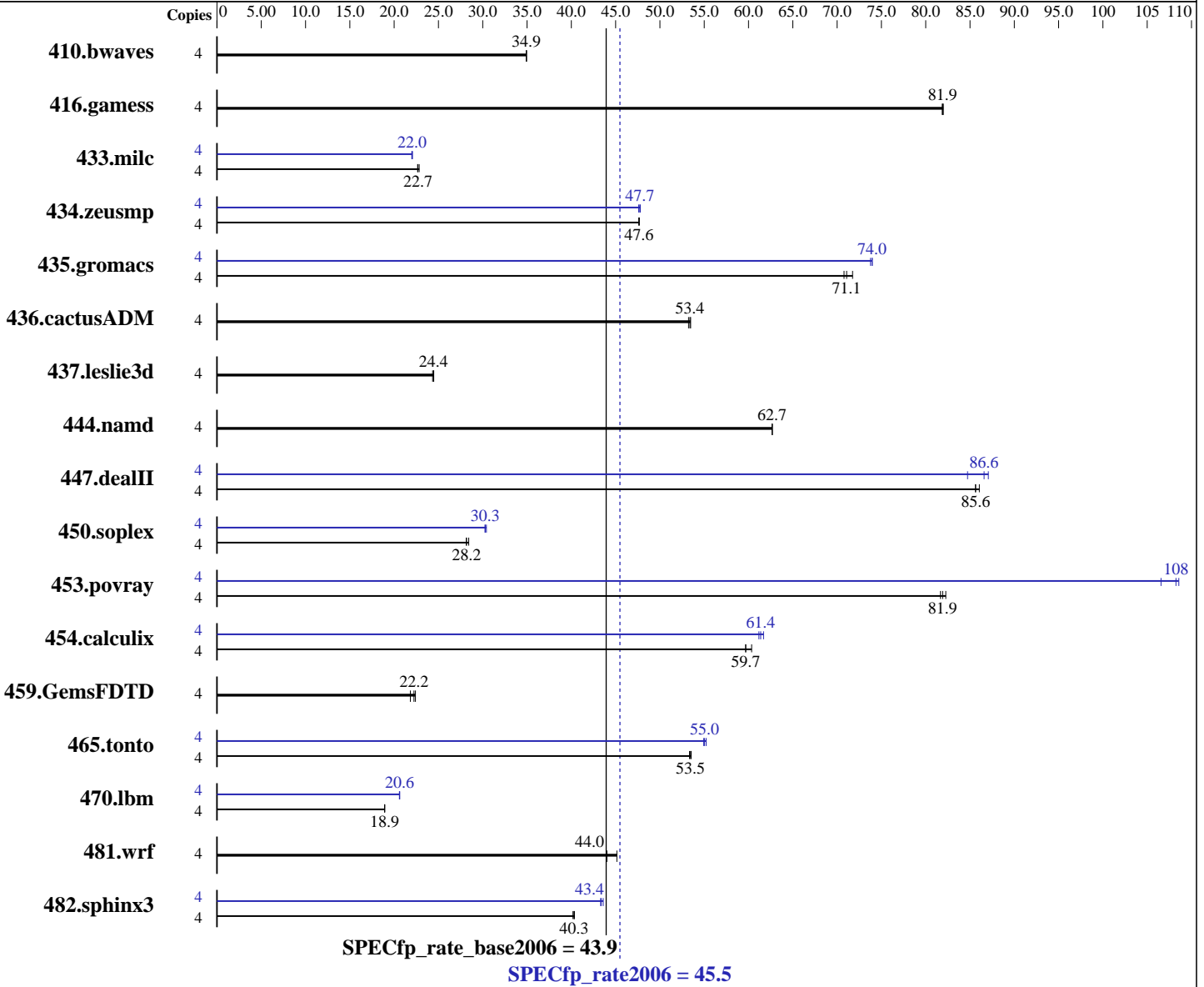
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Apr-2007

Hardware Availability: Jul-2006

Software Availability: Feb-2007



**Hardware**

CPU Name: Intel Xeon 5160  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip

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**Software**

Operating System: 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp on an x86\_64  
 Compiler: Intel C++ Compiler for IA32/EM64T application, Version 9.1 - Build 20070215, Package-ID: l\_cc\_p\_9.1.047  
 Intel Fortran Compiler for IA32/EM64T application, Version 9.1 - Build 20070215, Package ID: l\_fc\_p\_9.1.043  
 Auto Parallel: No  
 File System: ext2

Continued on next page



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L3 Cache: None  
Other Cache: None  
Memory: 8 GB (8x1 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)  
Disk Subsystem: SAS (73GB 15400 rpm)  
Other Hardware: None

System State: Multiuser, Runlevel 3  
Base Pointers: 64-bit  
Peak Pointers: 32/64-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	4	1556	34.9	<b>1556</b>	<b>34.9</b>	1557	34.9	4	1556	34.9	<b>1556</b>	<b>34.9</b>	1557	34.9		
416.gamess	4	957	81.9	955	82.0	<b>956</b>	<b>81.9</b>	4	957	81.9	955	82.0	<b>956</b>	<b>81.9</b>		
433.milc	4	<b>1618</b>	<b>22.7</b>	1621	22.7	1609	22.8	4	<b>1667</b>	<b>22.0</b>	1664	22.1	1670	22.0		
434.zeusmp	4	<b>764</b>	<b>47.6</b>	763	47.7	764	47.6	4	765	47.6	<b>763</b>	<b>47.7</b>	762	47.8		
435.gromacs	4	403	70.8	<b>402</b>	<b>71.1</b>	398	71.7	4	387	73.8	386	74.0	<b>386</b>	<b>74.0</b>		
436.cactusADM	4	894	53.5	898	53.2	<b>895</b>	<b>53.4</b>	4	894	53.5	898	53.2	<b>895</b>	<b>53.4</b>		
437.leslie3d	4	<b>1538</b>	<b>24.4</b>	1537	24.5	1545	24.3	4	<b>1538</b>	<b>24.4</b>	1537	24.5	1545	24.3		
444.namd	4	512	62.7	512	62.7	<b>512</b>	<b>62.7</b>	4	512	62.7	512	62.7	<b>512</b>	<b>62.7</b>		
447.dealII	4	534	85.6	532	86.1	<b>534</b>	<b>85.6</b>	4	540	84.7	526	87.1	<b>528</b>	<b>86.6</b>		
450.soplex	4	1174	28.4	1185	28.2	<b>1184</b>	<b>28.2</b>	4	<b>1102</b>	<b>30.3</b>	1097	30.4	1103	30.3		
453.povray	4	261	81.7	259	82.3	<b>260</b>	<b>81.9</b>	4	<b>197</b>	<b>108</b>	196	109	200	107		
454.calculix	4	547	60.4	<b>553</b>	<b>59.7</b>	553	59.7	4	539	61.2	535	61.7	<b>538</b>	<b>61.4</b>		
459.GemsFDTD	4	1894	22.4	<b>1908</b>	<b>22.2</b>	1944	21.8	4	1894	22.4	<b>1908</b>	<b>22.2</b>	1944	21.8		
465.tonto	4	738	53.3	<b>736</b>	<b>53.5</b>	735	53.5	4	713	55.2	716	54.9	<b>715</b>	<b>55.0</b>		
470.lbm	4	<b>2904</b>	<b>18.9</b>	2904	18.9	2902	18.9	4	<b>2666</b>	<b>20.6</b>	2664	20.6	2669	20.6		
481.wrf	4	<b>1015</b>	<b>44.0</b>	990	45.1	1017	43.9	4	<b>1015</b>	<b>44.0</b>	990	45.1	1017	43.9		
482.sphinx3	4	1940	40.2	1932	40.4	<b>1935</b>	<b>40.3</b>	4	1788	43.6	<b>1797</b>	<b>43.4</b>	1800	43.3		

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  
'/usr/bin/taskset' used to bind processes to CPUs

## General Notes

The system bus runs at 1333 MHz

All binaries were built with 64-bit Intel compiler except:  
433.milc, 434.zeusmp, 450.soplex, 470.lbm and 482.sphinx3 in peak were built with 32-bit Intel compiler by changing the path for include and library files.

This result was measured on the PRIMERGY RX300 S3. The PRIMERGY RX300 S3 and

Continued on next page



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### General Notes (Continued)

the PRIMERGY TX300 S3 are electronically equivalent.

For information about Fujitsu Siemens Computers in your country please see:  
<http://www.fujitsu-siemens.com/countries>

### 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

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## Base Optimization Flags (Continued)

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast

## Peak Compiler Invocation

C benchmarks:

/opt/intel/cc/9.1.047/bin/icc -I/opt/intel/cc/9.1.047/include  
-L/opt/intel/cc/9.1.047/lib

C++ benchmarks (except as noted below):

icpc

450.soplex: /opt/intel/cc/9.1.047/bin/icpc  
-I/opt/intel/cc/9.1.047/include -L/opt/intel/cc/9.1.047/lib

Fortran benchmarks (except as noted below):

ifort

434.zeusmp: /opt/intel/fc/9.1.043/bin/ifort  
-I/opt/intel/fc/9.1.043/include -L/opt/intel/fc/9.1.043/lib

Benchmarks using both Fortran and C:

icc ifort

## Peak Portability Flags

410.bwaves: -DSPEC\_CPU\_LP64  
416.gamess: -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  
453.povray: -DSPEC\_CPU\_LP64  
454.calculix: -DSPEC\_CPU\_LP64 -nofor\_main  
459.GemsFDTD: -DSPEC\_CPU\_LP64  
465.tonto: -DSPEC\_CPU\_LP64  
481.wrf: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_CASE\_FLAG -DSPEC\_CPU\_LINUX



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## Peak Optimization Flags

C benchmarks:

433.milc: -prof\_gen(pass 1) -prof\_use(pass 2) -fast

470.lbm: Same as 433.milc

482.sphinx3: -fast

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: -prof\_gen(pass 1) -prof\_use(pass 2) -fast

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: -fast

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -prof\_gen(pass 1) -prof\_use(pass 2) -fast

Benchmarks using both Fortran and C:

435.gromacs: -prof\_gen(pass 1) -prof\_use(pass 2) -fast

436.cactusADM: basepeak = yes

454.calculix: Same as 435.gromacs

481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.09.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.09.html)

You can also download the XML flags source by saving the following link:

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.09.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.09.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).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 11:48:53 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 29 May 2007.