



# SPEC<sup>®</sup> CFP2006 Result

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## Fujitsu Siemens Computers

PRIMERGY RX100 S5, Intel Core 2 Duo E7200, 2.53 GHz

SPECfp<sup>®</sup>\_rate2006 = 28.2

SPECfp\_rate\_base2006 = 26.7

CPU2006 license: 22

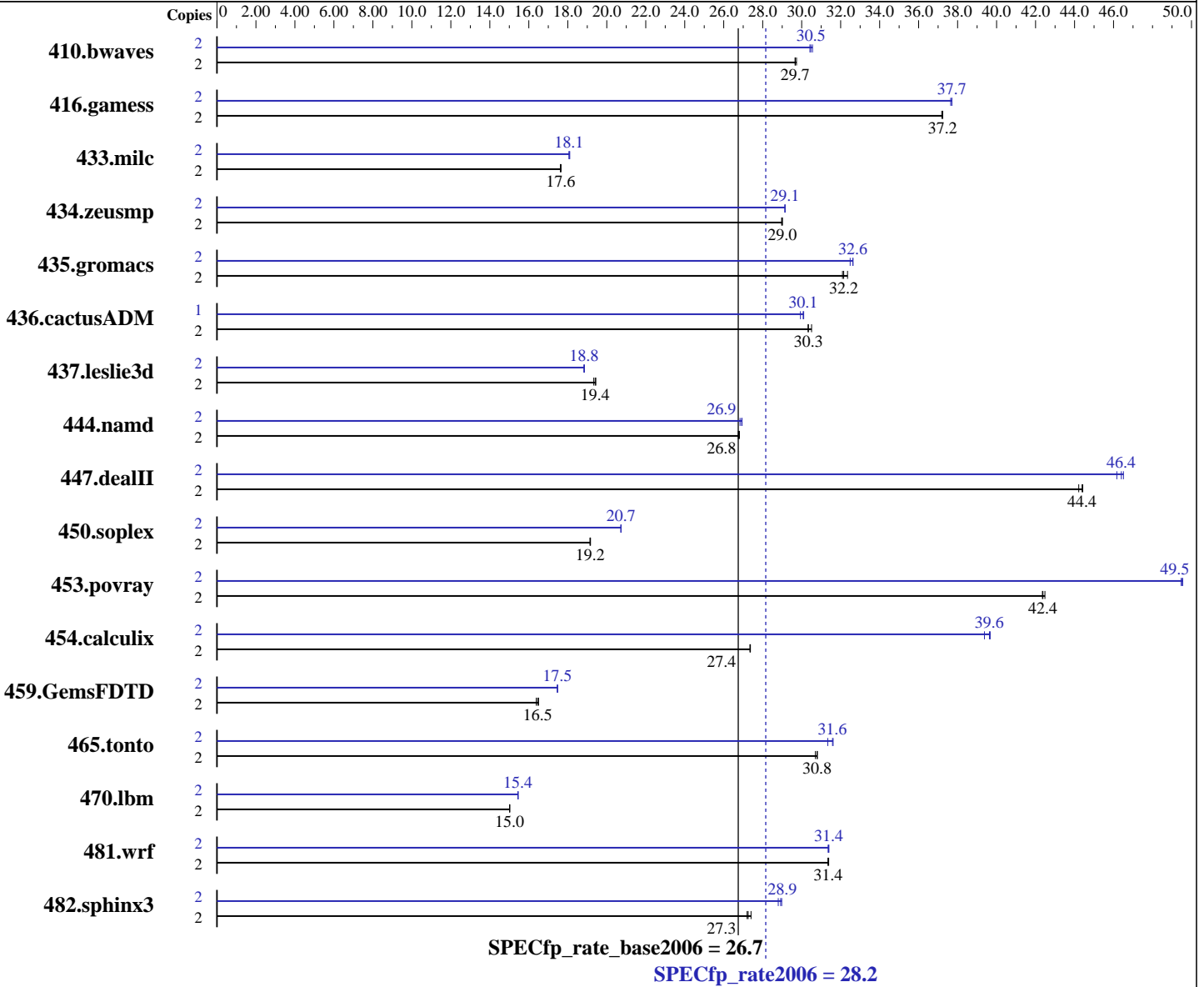
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Aug-2008

Hardware Availability: Aug-2008

Software Availability: May-2008



**Hardware**

CPU Name: Intel Core 2 Duo E7200  
 CPU Characteristics: 1067 MHz system bus  
 CPU MHz: 2533  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 3 MB I+D on chip per chip

**Software**

Operating System: SuSE Linux Enterprise Server 10 (x86\_64) with SP2, kernel 2.6.16.60-0.21-smp  
 Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 Version 10.1 - Build 20070913  
 Auto Parallel: Yes  
 File System: ext3  
 System State: Multi-User Run Level 3  
 Base Pointers: 64-bit

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L3 Cache: None  
Other Cache: None  
Memory: 8 GB (4x2 GB PC2-6400E, 2 rank, CL 6-6-6, ECC)  
Disk Subsystem: 1x SATA, 160 GB, 7200 rpm  
Other Hardware: None

Peak Pointers: 32/64-bit  
Other Software: binutils-2.17.50.0.5-0.1.x86\_64

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	<b>916</b>	<b>29.7</b>	914	29.7	916	29.7	2	<b>892</b>	<b>30.5</b>	890	30.6	893	30.4
416.gamess	2	1052	37.2	1053	37.2	<b>1052</b>	<b>37.2</b>	2	1039	37.7	1040	37.6	<b>1039</b>	<b>37.7</b>
433.milc	2	<b>1041</b>	<b>17.6</b>	1040	17.7	1042	17.6	2	1014	18.1	<b>1016</b>	<b>18.1</b>	1016	18.1
434.zeusmp	2	628	29.0	627	29.0	<b>628</b>	<b>29.0</b>	2	624	29.1	625	29.1	<b>624</b>	<b>29.1</b>
435.gromacs	2	441	32.4	<b>444</b>	<b>32.2</b>	445	32.1	2	438	32.6	<b>438</b>	<b>32.6</b>	440	32.5
436.cactusADM	2	788	30.3	783	30.5	<b>788</b>	<b>30.3</b>	1	397	30.1	399	29.9	<b>397</b>	<b>30.1</b>
437.leslie3d	2	967	19.4	<b>969</b>	<b>19.4</b>	972	19.3	2	997	18.9	<b>998</b>	<b>18.8</b>	999	18.8
444.namd	2	600	26.8	598	26.8	<b>599</b>	<b>26.8</b>	2	598	26.8	<b>596</b>	<b>26.9</b>	595	26.9
447.dealII	2	517	44.2	<b>515</b>	<b>44.4</b>	515	44.4	2	496	46.2	<b>493</b>	<b>46.4</b>	492	46.5
450.soplex	2	872	19.1	<b>871</b>	<b>19.2</b>	870	19.2	2	<b>805</b>	<b>20.7</b>	804	20.7	805	20.7
453.povray	2	250	42.5	<b>251</b>	<b>42.4</b>	251	42.4	2	<b>215</b>	<b>49.5</b>	215	49.5	215	49.5
454.calculix	2	603	27.4	603	27.3	<b>603</b>	<b>27.4</b>	2	416	39.7	<b>416</b>	<b>39.6</b>	419	39.4
459.GemsFDTD	2	1286	16.5	1295	16.4	<b>1290</b>	<b>16.5</b>	2	1215	17.5	<b>1215</b>	<b>17.5</b>	1214	17.5
465.tonto	2	641	30.7	<b>639</b>	<b>30.8</b>	639	30.8	2	623	31.6	<b>623</b>	<b>31.6</b>	628	31.3
470.lbm	2	1830	15.0	1830	15.0	<b>1830</b>	<b>15.0</b>	2	1779	15.4	<b>1779</b>	<b>15.4</b>	1779	15.4
481.wrf	2	<b>712</b>	<b>31.4</b>	713	31.4	712	31.4	2	<b>712</b>	<b>31.4</b>	712	31.4	712	31.4
482.sphinx3	2	1433	27.2	1423	27.4	<b>1430</b>	<b>27.3</b>	2	1345	29.0	<b>1348</b>	<b>28.9</b>	1354	28.8

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Compiler Invocation Notes

All binaries were built with 64-bit Intel compiler except:  
450.soplex, 470.lbm and 482.sphinx3 in peak were built with 32-bit Intel compiler.

## Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run  
OMP\_NUM\_THREADS set to number of cores (default)

## Platform Notes

BIOS configuration:  
Hardware Prefetch = Enable, Adjacent Sector Prefetch = Disable



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## General Notes

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

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## Base Optimization Flags (Continued)

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast

## Peak Compiler Invocation

C benchmarks (except as noted below):

/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include

433.milc: icc

C++ benchmarks (except as noted below):

icpc

450.soplex: /opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include

Fortran benchmarks (except as noted below):

ifort

437.leslie3d: /opt/intel/fc/10.1.008/bin/ifort -L/opt/intel/fc/10.1.008/lib  
-I/opt/intel/fc/10.1.008/include

Benchmarks using both Fortran and C:

icc ifort

## Peak 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  
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 -fno-alias  
-auto-ilp32

470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-scalar-rep- -prefetch -opt-malloc-options=3

482.sphinx3: -fast -unroll2

### C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias  
-auto-ilp32

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -fast  
-opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4  
-ansi-alias

### Fortran benchmarks:

410.bwaves: -fast -prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0  
-ansi-alias -scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -fast

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch  
-opt-malloc-options=3

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0  
-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -auto

### Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch  
-auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-prefetch -parallel -auto-ilp32

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## Peak Optimization Flags (Continued)

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32

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

<http://www.spec.org/cpu2006/flags/flags-ic101-linux-intel64.html>

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

<http://www.spec.org/cpu2006/flags/flags-ic101-linux-intel64.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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