



# SPEC<sup>®</sup> CFP2006 Result

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## Fujitsu Siemens Computers

PRIMERGY RX100 S4, Intel Xeon processor 3070,  
2.67 GHz

SPECfp<sup>®</sup>\_rate2006 = 25.9

SPECfp\_rate\_base2006 = 25.0

CPU2006 license: 22

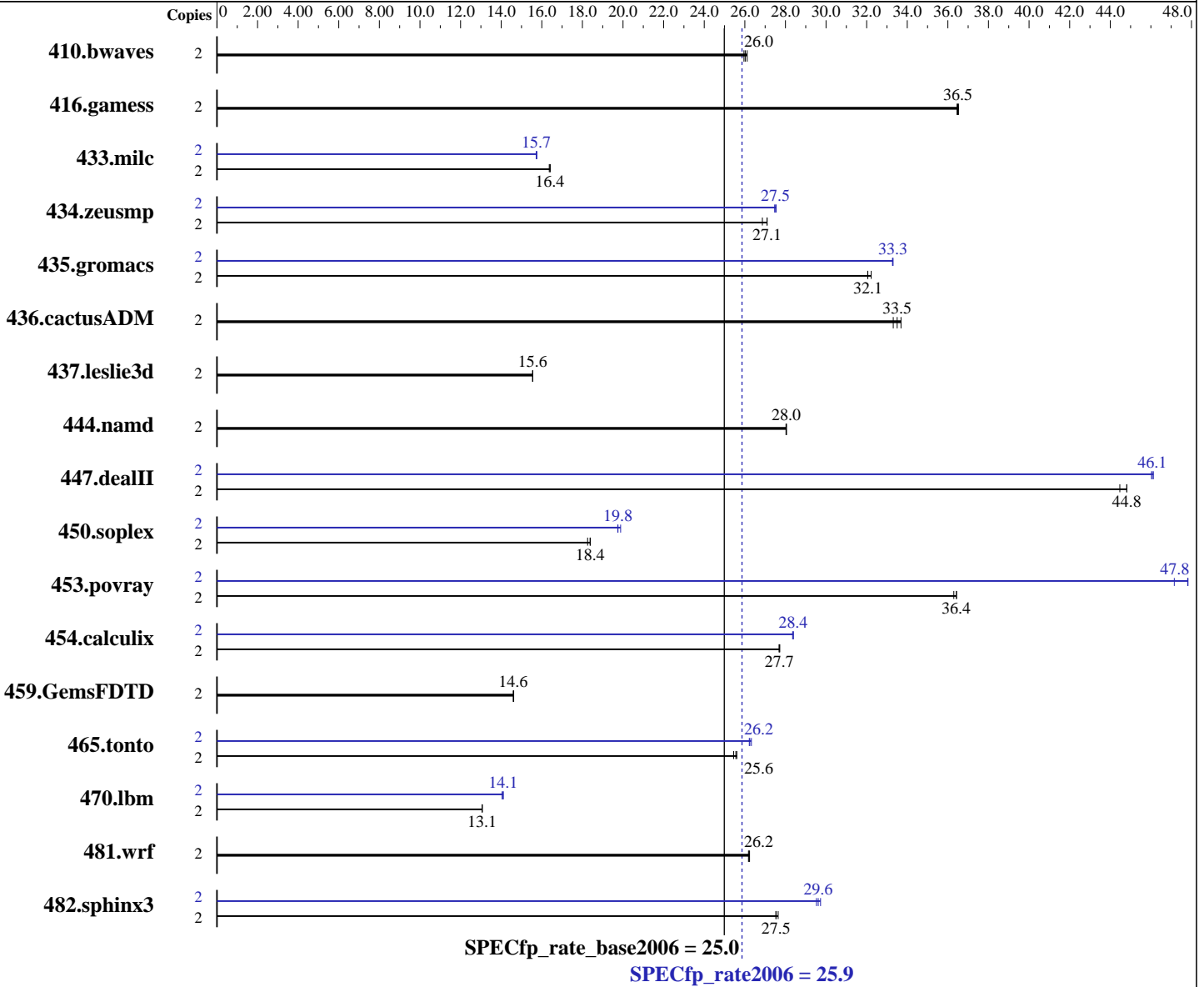
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: May-2007

Hardware Availability: May-2007

Software Availability: Feb-2007



### Hardware

CPU Name: Intel Xeon 3070  
 CPU Characteristics: 1067 MHz system bus  
 CPU MHz: 2667  
 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: 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: ReiserFS

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L3 Cache: None  
Other Cache: None  
Memory: 8 GB (4x2 GB DDR2 PC2-4200E, 2 rank, CAS 4-4-4, with ECC)  
Disk Subsystem: SATA (160 GB, 7200 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	2	1041	26.1	<b>1045</b>	<b>26.0</b>	1047	26.0	2	1041	26.1	<b>1045</b>	<b>26.0</b>	1047	26.0
416.gamess	2	1072	36.5	1074	36.5	<b>1073</b>	<b>36.5</b>	2	1072	36.5	1074	36.5	<b>1073</b>	<b>36.5</b>
433.milc	2	1122	16.4	1118	16.4	<b>1120</b>	<b>16.4</b>	2	1165	15.8	1167	15.7	<b>1167</b>	<b>15.7</b>
434.zeusmp	2	677	26.9	672	27.1	<b>672</b>	<b>27.1</b>	2	663	27.5	661	27.5	<b>662</b>	<b>27.5</b>
435.gromacs	2	<b>445</b>	<b>32.1</b>	446	32.1	443	32.2	2	<b>429</b>	<b>33.3</b>	429	33.3	429	33.3
436.cactusADM	2	717	33.3	709	33.7	<b>713</b>	<b>33.5</b>	2	717	33.3	709	33.7	<b>713</b>	<b>33.5</b>
437.leslie3d	2	<b>1209</b>	<b>15.6</b>	1209	15.6	1209	15.6	2	<b>1209</b>	<b>15.6</b>	1209	15.6	1209	15.6
444.namd	2	572	28.1	572	28.0	<b>572</b>	<b>28.0</b>	2	572	28.1	572	28.0	<b>572</b>	<b>28.0</b>
447.dealII	2	515	44.5	<b>511</b>	<b>44.8</b>	511	44.8	2	497	46.0	<b>497</b>	<b>46.1</b>	496	46.1
450.soplex	2	914	18.3	<b>908</b>	<b>18.4</b>	907	18.4	2	<b>844</b>	<b>19.8</b>	845	19.7	839	19.9
453.povray	2	<b>292</b>	<b>36.4</b>	293	36.3	292	36.4	2	222	47.8	226	47.2	<b>223</b>	<b>47.8</b>
454.calculix	2	595	27.7	<b>596</b>	<b>27.7</b>	596	27.7	2	582	28.4	<b>581</b>	<b>28.4</b>	581	28.4
459.GemsFDTD	2	<b>1453</b>	<b>14.6</b>	1454	14.6	1452	14.6	2	<b>1453</b>	<b>14.6</b>	1454	14.6	1452	14.6
465.tonto	2	769	25.6	773	25.5	<b>770</b>	<b>25.6</b>	2	<b>750</b>	<b>26.2</b>	751	26.2	748	26.3
470.lbm	2	2105	13.1	2102	13.1	<b>2104</b>	<b>13.1</b>	2	1957	14.0	1949	14.1	<b>1950</b>	<b>14.1</b>
481.wrf	2	853	26.2	852	26.2	<b>852</b>	<b>26.2</b>	2	853	26.2	852	26.2	<b>852</b>	<b>26.2</b>
482.sphinx3	2	<b>1416</b>	<b>27.5</b>	1410	27.6	1416	27.5	2	1320	29.5	1311	29.7	<b>1316</b>	<b>29.6</b>

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 1067 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.

For information about Fujitsu Siemens Computers in your country please see:

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**Hardware Availability:** May-2007

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## General Notes (Continued)

<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

Fortran benchmarks:

-fast

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## Base Optimization Flags (Continued)

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
```

## Peak Optimization Flags

C benchmarks:

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## Peak Optimization Flags (Continued)

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

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