



# SPEC® CFP2006 Result

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## Fujitsu Siemens Computers

PRIMERGY RX100 S4, Intel Xeon processor 3040,  
1.86 GHz

SPECfp®\_rate2006 = 20.4

SPECfp\_rate\_base2006 = 19.8

CPU2006 license: 22

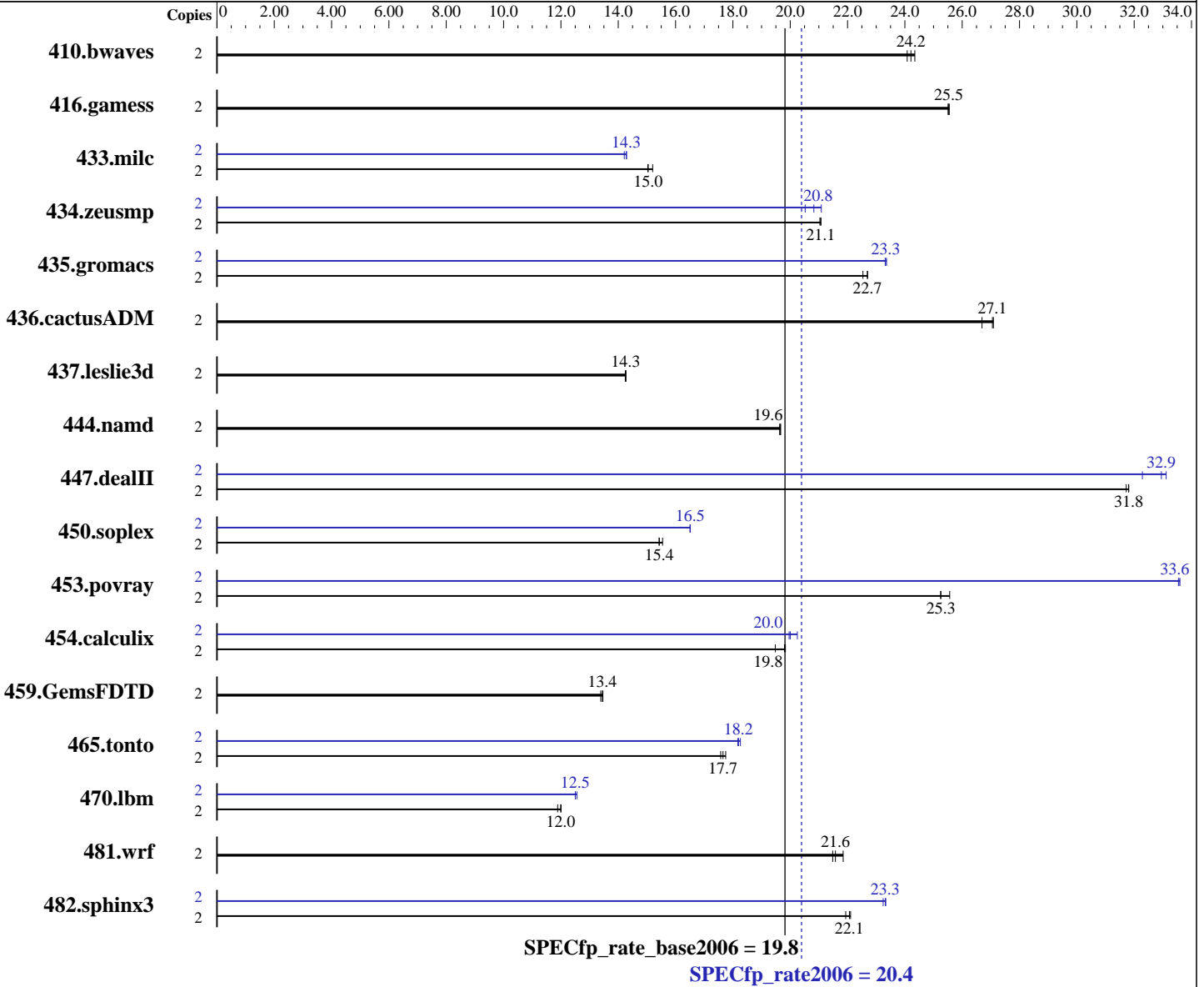
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: May-2007

Hardware Availability: Sep-2006

Software Availability: Feb-2007



### Hardware

CPU Name: Intel Xeon 3040  
 CPU Characteristics: 1067 MHz system bus  
 CPU MHz: 1867  
 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: 2 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	<b>1123</b>	<b>24.2</b>	1116	24.3	1129	24.1	2	<b>1123</b>	<b>24.2</b>	1116	24.3	1129	24.1
416.gamess	2	1533	25.5	1535	25.5	<b>1534</b>	<b>25.5</b>	2	1533	25.5	1535	25.5	<b>1534</b>	<b>25.5</b>
433.milc	2	<b>1220</b>	<b>15.0</b>	1208	15.2	1221	15.0	2	1292	14.2	1285	14.3	<b>1286</b>	<b>14.3</b>
434.zeusmp	2	864	21.1	<b>864</b>	<b>21.1</b>	865	21.0	2	863	21.1	<b>874</b>	<b>20.8</b>	887	20.5
435.gromacs	2	<b>629</b>	<b>22.7</b>	634	22.5	629	22.7	2	613	23.3	<b>612</b>	<b>23.3</b>	611	23.4
436.cactusADM	2	895	26.7	<b>883</b>	<b>27.1</b>	882	27.1	2	895	26.7	<b>883</b>	<b>27.1</b>	882	27.1
437.leslie3d	2	1320	14.2	<b>1318</b>	<b>14.3</b>	1318	14.3	2	1320	14.2	<b>1318</b>	<b>14.3</b>	1318	14.3
444.namd	2	<b>816</b>	<b>19.6</b>	817	19.6	816	19.7	2	<b>816</b>	<b>19.6</b>	817	19.6	816	19.7
447.dealII	2	719	31.8	<b>719</b>	<b>31.8</b>	721	31.7	2	691	33.1	709	32.3	<b>694</b>	<b>32.9</b>
450.soplex	2	<b>1081</b>	<b>15.4</b>	1073	15.5	1081	15.4	2	1010	16.5	<b>1010</b>	<b>16.5</b>	1011	16.5
453.povray	2	421	25.2	<b>421</b>	<b>25.3</b>	416	25.6	2	317	33.6	<b>317</b>	<b>33.6</b>	317	33.5
454.calculix	2	832	19.8	<b>833</b>	<b>19.8</b>	847	19.5	2	<b>825</b>	<b>20.0</b>	827	20.0	815	20.2
459.GemsFDTD	2	<b>1578</b>	<b>13.4</b>	1576	13.5	1585	13.4	2	<b>1578</b>	<b>13.4</b>	1576	13.5	1585	13.4
465.tonto	2	1109	17.7	<b>1115</b>	<b>17.7</b>	1120	17.6	2	1083	18.2	<b>1082</b>	<b>18.2</b>	1078	18.3
470.lbm	2	<b>2292</b>	<b>12.0</b>	2289	12.0	2312	11.9	2	2188	12.6	<b>2198</b>	<b>12.5</b>	2198	12.5
481.wrf	2	1040	21.5	1023	21.8	<b>1035</b>	<b>21.6</b>	2	1040	21.5	1023	21.8	<b>1035</b>	<b>21.6</b>
482.sphinx3	2	1763	22.1	<b>1767</b>	<b>22.1</b>	1777	21.9	2	1671	23.3	<b>1672</b>	<b>23.3</b>	1677	23.2

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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## 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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