



# SPEC<sup>®</sup> CFP2006 Result

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## Fujitsu Siemens Computers

PRIMERGY RX200 S3, Intel Xeon processor 5140,  
2.33 GHz

SPECfp<sup>®</sup>\_rate2006 = 40.0

SPECfp\_rate\_base2006 = 38.7

CPU2006 license: 22

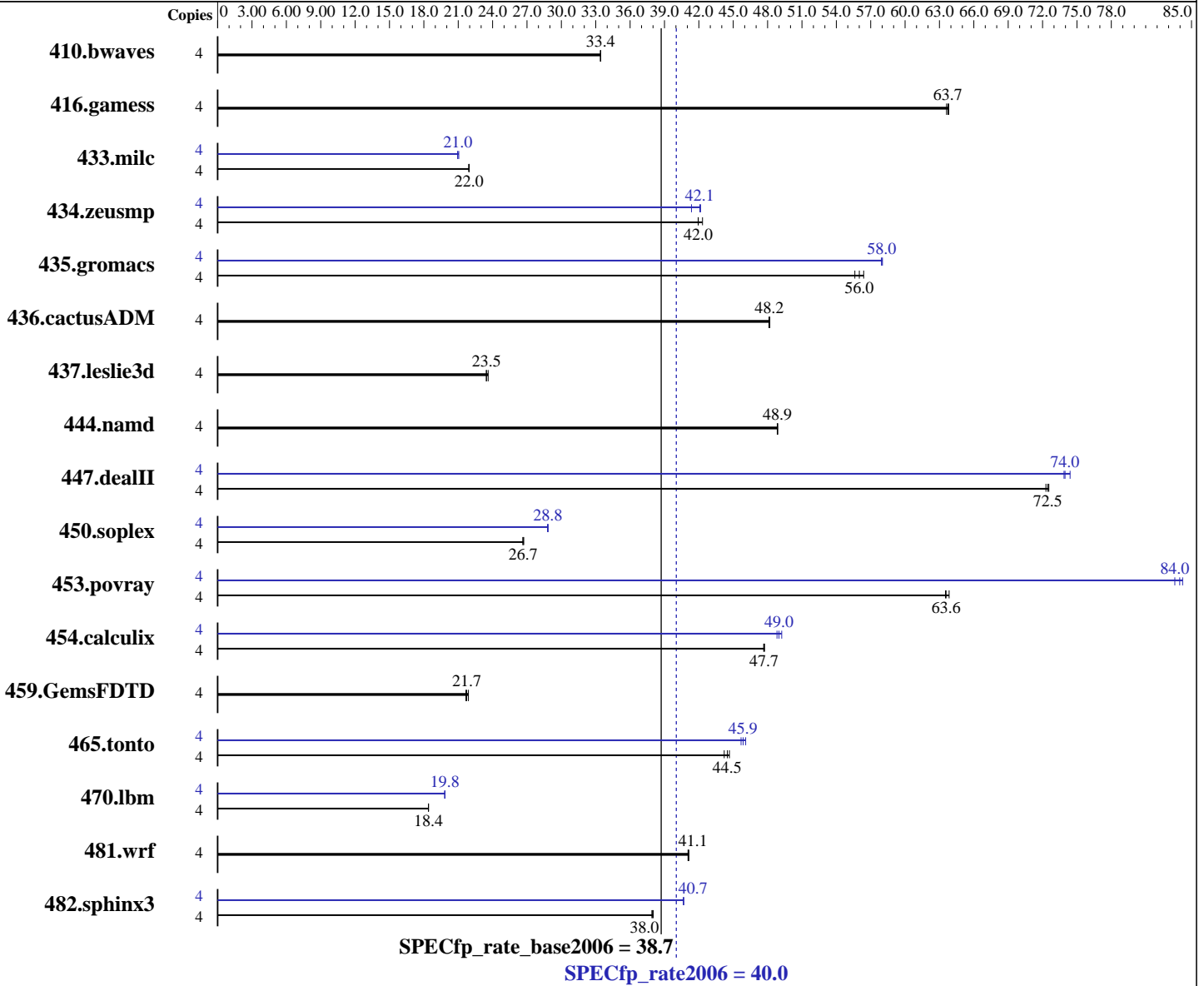
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Apr-2007

Hardware Availability: Jul-2006

Software Availability: Feb-2007



### Hardware

CPU Name: Intel Xeon 5140  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 2333  
 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

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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	<b>1626</b>	<b>33.4</b>	1626	33.4	1627	33.4	4	<b>1626</b>	<b>33.4</b>	1626	33.4	1627	33.4
416.gamess	4	<b>1229</b>	<b>63.7</b>	1227	63.8	1231	63.6	4	<b>1229</b>	<b>63.7</b>	1227	63.8	1231	63.6
433.milc	4	1672	22.0	<b>1673</b>	<b>22.0</b>	1676	21.9	4	1753	21.0	<b>1751</b>	<b>21.0</b>	1745	21.0
434.zeusmp	4	868	41.9	<b>868</b>	<b>42.0</b>	860	42.3	4	<b>865</b>	<b>42.1</b>	880	41.4	864	42.2
435.gromacs	4	<b>510</b>	<b>56.0</b>	514	55.6	507	56.4	4	492	58.0	493	57.9	<b>493</b>	<b>58.0</b>
436.cactusADM	4	992	48.2	993	48.1	<b>993</b>	<b>48.2</b>	4	992	48.2	993	48.1	<b>993</b>	<b>48.2</b>
437.leslie3d	4	1592	23.6	1603	23.5	<b>1602</b>	<b>23.5</b>	4	1592	23.6	1603	23.5	<b>1602</b>	<b>23.5</b>
444.namd	4	<b>657</b>	<b>48.9</b>	657	48.8	656	48.9	4	<b>657</b>	<b>48.9</b>	657	48.8	656	48.9
447.dealII	4	631	72.5	<b>632</b>	<b>72.5</b>	633	72.3	4	615	74.4	619	73.9	<b>619</b>	<b>74.0</b>
450.soplex	4	1249	26.7	1252	26.6	<b>1251</b>	<b>26.7</b>	4	<b>1157</b>	<b>28.8</b>	1157	28.8	1159	28.8
453.povray	4	335	63.5	<b>335</b>	<b>63.6</b>	333	63.8	4	<b>253</b>	<b>84.0</b>	255	83.5	253	84.2
454.calculix	4	<b>692</b>	<b>47.7</b>	692	47.7	691	47.7	4	670	49.2	<b>674</b>	<b>49.0</b>	676	48.8
459.GemsFDTD	4	1939	21.9	1958	21.7	<b>1952</b>	<b>21.7</b>	4	1939	21.9	1958	21.7	<b>1952</b>	<b>21.7</b>
465.tonto	4	881	44.7	890	44.2	<b>885</b>	<b>44.5</b>	4	854	46.1	862	45.7	<b>858</b>	<b>45.9</b>
470.lbm	4	2986	18.4	2987	18.4	<b>2987</b>	<b>18.4</b>	4	2771	19.8	<b>2771</b>	<b>19.8</b>	2773	19.8
481.wrf	4	1086	41.1	1088	41.1	<b>1088</b>	<b>41.1</b>	4	1086	41.1	1088	41.1	<b>1088</b>	<b>41.1</b>
482.sphinx3	4	2057	37.9	2050	38.0	<b>2054</b>	<b>38.0</b>	4	1917	40.7	<b>1917</b>	<b>40.7</b>	1918	40.6

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.

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

Continued on next page



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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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