



# SPEC<sup>®</sup> CFP2006 Result

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## Fujitsu Siemens Computers

PRIMERGY RX200 S3, Intel Xeon processor 5130, 2.0 GHz

SPECfp<sup>®</sup>\_rate2006 = 37.2

SPECfp\_rate\_base2006 = 36.1

CPU2006 license: 22

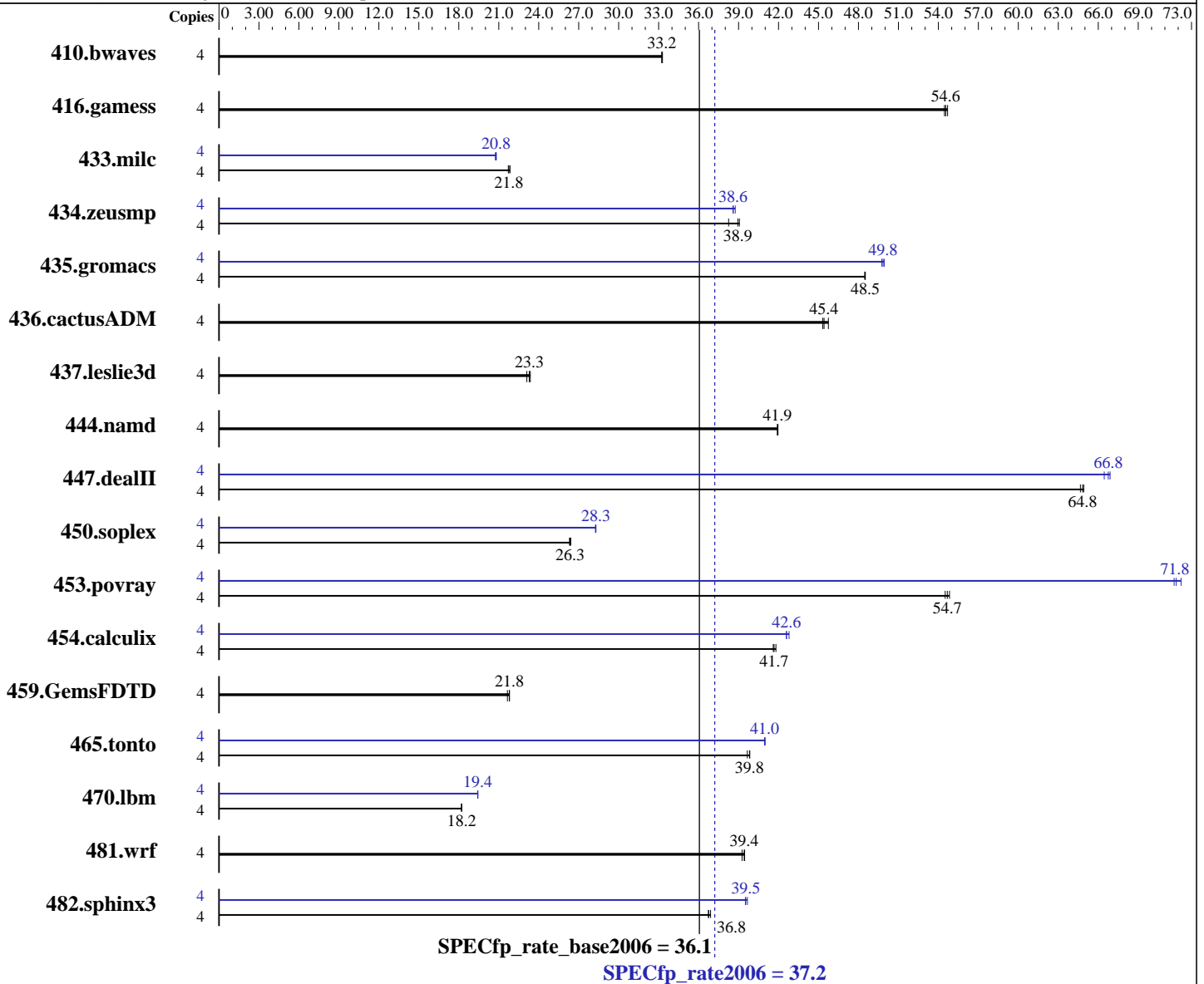
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Apr-2007

Hardware Availability: Jul-2006

Software Availability: Feb-2007



### Hardware

CPU Name: Intel Xeon 5130  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 2000  
 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	1633	33.3	<b>1635</b>	<b>33.2</b>	1636	33.2	4	1633	33.3	<b>1635</b>	<b>33.2</b>	1636	33.2		
416.gamess	4	<b>1436</b>	<b>54.6</b>	1438	54.5	1432	54.7	4	<b>1436</b>	<b>54.6</b>	1438	54.5	1432	54.7		
433.milc	4	1691	21.7	1681	21.8	<b>1687</b>	<b>21.8</b>	4	1770	20.7	1764	20.8	<b>1765</b>	<b>20.8</b>		
434.zeusmp	4	952	38.3	<b>935</b>	<b>38.9</b>	932	39.1	4	943	38.6	<b>943</b>	<b>38.6</b>	939	38.7		
435.gromacs	4	589	48.5	589	48.5	<b>589</b>	<b>48.5</b>	4	572	49.9	<b>573</b>	<b>49.8</b>	574	49.8		
436.cactusADM	4	<b>1052</b>	<b>45.4</b>	1055	45.3	1045	45.7	4	<b>1052</b>	<b>45.4</b>	1055	45.3	1045	45.7		
437.leslie3d	4	<b>1614</b>	<b>23.3</b>	1609	23.4	1627	23.1	4	<b>1614</b>	<b>23.3</b>	1609	23.4	1627	23.1		
444.namd	4	<b>765</b>	<b>41.9</b>	765	42.0	765	41.9	4	<b>765</b>	<b>41.9</b>	765	42.0	765	41.9		
447.dealII	4	705	64.9	708	64.7	<b>706</b>	<b>64.8</b>	4	684	66.9	<b>686</b>	<b>66.8</b>	689	66.4		
450.soplex	4	1263	26.4	1268	26.3	<b>1266</b>	<b>26.3</b>	4	1181	28.3	<b>1179</b>	<b>28.3</b>	1179	28.3		
453.povray	4	<b>389</b>	<b>54.7</b>	390	54.5	388	54.8	4	<b>296</b>	<b>71.8</b>	295	72.2	297	71.7		
454.calculix	4	789	41.8	<b>792</b>	<b>41.7</b>	793	41.6	4	775	42.6	771	42.8	<b>775</b>	<b>42.6</b>		
459.GemsFDTD	4	<b>1947</b>	<b>21.8</b>	1960	21.6	1947	21.8	4	<b>1947</b>	<b>21.8</b>	1960	21.6	1947	21.8		
465.tonto	4	<b>988</b>	<b>39.8</b>	988	39.8	992	39.7	4	960	41.0	<b>961</b>	<b>41.0</b>	961	41.0		
470.lbm	4	<b>3018</b>	<b>18.2</b>	3018	18.2	3017	18.2	4	2831	19.4	<b>2829</b>	<b>19.4</b>	2828	19.4		
481.wrf	4	1132	39.5	1138	39.3	<b>1133</b>	<b>39.4</b>	4	1132	39.5	1138	39.3	<b>1133</b>	<b>39.4</b>		
482.sphinx3	4	2122	36.7	2113	36.9	<b>2121</b>	<b>36.8</b>	4	<b>1972</b>	<b>39.5</b>	1965	39.7	1973	39.5		

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

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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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