



# SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Fujitsu Siemens Computers

PRIMERGY RX200 S3, Intel Xeon processor 5160, 3.0 GHz

SPECfp®\_rate2006 = 45.5

SPECfp\_rate\_base2006 = 44.0

CPU2006 license: 22

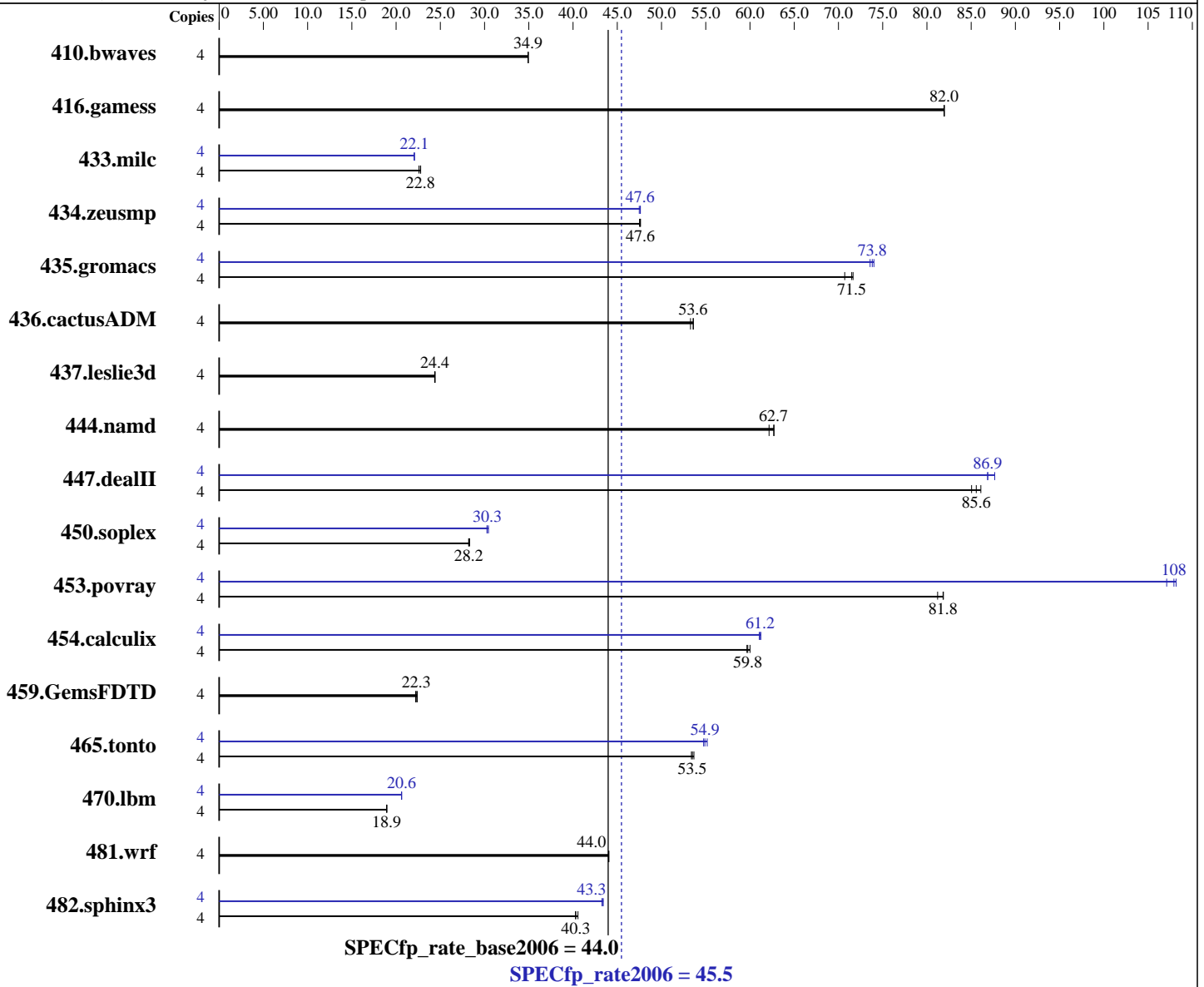
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: May-2007

Hardware Availability: Jul-2006

Software Availability: Feb-2007



### Hardware

CPU Name: Intel Xeon 5160  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 3000  
 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

Continued on next page

### 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

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Fujitsu Siemens Computers

PRIMERGY RX200 S3, Intel Xeon processor 5160, 3.0 GHz

SPECfp\_rate2006 = 45.5

SPECfp\_rate\_base2006 = 44.0

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: May-2007

Hardware Availability: Jul-2006

Software Availability: Feb-2007

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	1557	34.9	1556	34.9	<b>1556</b>	<b>34.9</b>	4	1557	34.9	1556	34.9	<b>1556</b>	<b>34.9</b>		
416.gamess	4	956	81.9	<b>956</b>	<b>82.0</b>	956	82.0	4	956	81.9	<b>956</b>	<b>82.0</b>	956	82.0		
433.milc	4	1626	22.6	<b>1614</b>	<b>22.8</b>	1612	22.8	4	<b>1664</b>	<b>22.1</b>	1665	22.1	1664	22.1		
434.zeusmp	4	764	47.6	766	47.5	<b>765</b>	<b>47.6</b>	4	767	47.5	764	47.6	<b>765</b>	<b>47.6</b>		
435.gromacs	4	399	71.7	<b>399</b>	<b>71.5</b>	404	70.7	4	386	74.0	<b>387</b>	<b>73.8</b>	388	73.6		
436.cactusADM	4	892	53.6	897	53.3	<b>892</b>	<b>53.6</b>	4	892	53.6	897	53.3	<b>892</b>	<b>53.6</b>		
437.leslie3d	4	1540	24.4	1544	24.4	<b>1542</b>	<b>24.4</b>	4	1540	24.4	1544	24.4	<b>1542</b>	<b>24.4</b>		
444.namd	4	511	62.7	516	62.2	<b>512</b>	<b>62.7</b>	4	511	62.7	516	62.2	<b>512</b>	<b>62.7</b>		
447.dealII	4	532	86.1	538	85.0	<b>535</b>	<b>85.6</b>	4	<b>527</b>	<b>86.9</b>	522	87.7	527	86.9		
450.soplex	4	<b>1182</b>	<b>28.2</b>	1178	28.3	1183	28.2	4	1096	30.4	1102	30.3	<b>1101</b>	<b>30.3</b>		
453.povray	4	260	81.9	<b>260</b>	<b>81.8</b>	262	81.2	4	197	108	<b>197</b>	<b>108</b>	199	107		
454.calculix	4	553	59.7	<b>552</b>	<b>59.8</b>	550	60.0	4	<b>540</b>	<b>61.2</b>	541	61.0	539	61.2		
459.GemsFDTD	4	1895	22.4	<b>1905</b>	<b>22.3</b>	1911	22.2	4	1895	22.4	<b>1905</b>	<b>22.3</b>	1911	22.2		
465.tonto	4	733	53.7	<b>736</b>	<b>53.5</b>	737	53.4	4	713	55.2	<b>717</b>	<b>54.9</b>	719	54.8		
470.lbm	4	<b>2902</b>	<b>18.9</b>	2902	18.9	2901	18.9	4	<b>2665</b>	<b>20.6</b>	2665	20.6	2666	20.6		
481.wrf	4	<b>1015</b>	<b>44.0</b>	1015	44.0	1014	44.1	4	<b>1015</b>	<b>44.0</b>	1015	44.0	1014	44.1		
482.sphinx3	4	<b>1934</b>	<b>40.3</b>	1935	40.3	1922	40.6	4	1802	43.3	<b>1799</b>	<b>43.3</b>	1796	43.4		

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:

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Fujitsu Siemens Computers**

PRIMERGY RX200 S3, Intel Xeon processor 5160, 3.0 GHz

**SPECfp\_rate2006 = 45.5**

**SPECfp\_rate\_base2006 = 44.0**

**CPU2006 license:** 22

**Test sponsor:** Fujitsu Siemens Computers

**Tested by:** Fujitsu Siemens Computers

**Test date:** May-2007

**Hardware Availability:** Jul-2006

**Software Availability:** Feb-2007

## 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



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Fujitsu Siemens Computers**

PRIMERGY RX200 S3, Intel Xeon processor 5160, 3.0 GHz

**SPECfp\_rate2006 = 45.5**

**SPECfp\_rate\_base2006 = 44.0**

**CPU2006 license:** 22

**Test sponsor:** Fujitsu Siemens Computers

**Tested by:** Fujitsu Siemens Computers

**Test date:** May-2007

**Hardware Availability:** Jul-2006

**Software Availability:** Feb-2007

## 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:

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Fujitsu Siemens Computers**

PRIMERGY RX200 S3, Intel Xeon processor 5160, 3.0 GHz

**SPECfp\_rate2006 = 45.5**

**SPECfp\_rate\_base2006 = 44.0**

**CPU2006 license:** 22

**Test sponsor:** Fujitsu Siemens Computers

**Tested by:** Fujitsu Siemens Computers

**Test date:** May-2007

**Hardware Availability:** Jul-2006

**Software Availability:** Feb-2007

## 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)



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Fujitsu Siemens Computers

PRIMERGY RX200 S3, Intel Xeon processor 5160, 3.0 GHz

SPECfp\_rate2006 = 45.5

SPECfp\_rate\_base2006 = 44.0

**CPU2006 license:** 22

**Test sponsor:** Fujitsu Siemens Computers

**Tested by:** Fujitsu Siemens Computers

**Test date:** May-2007

**Hardware Availability:** Jul-2006

**Software Availability:** Feb-2007

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 11:39:54 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 29 May 2007.