



# SPEC® CFP2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

## Fujitsu Siemens Computers

### SPECfp®\_rate2006 = 51.0

### CELSIUS R640, Intel Xeon E5335 processor

### SPECfp\_rate\_base2006 = 49.8

CPU2006 license: 22

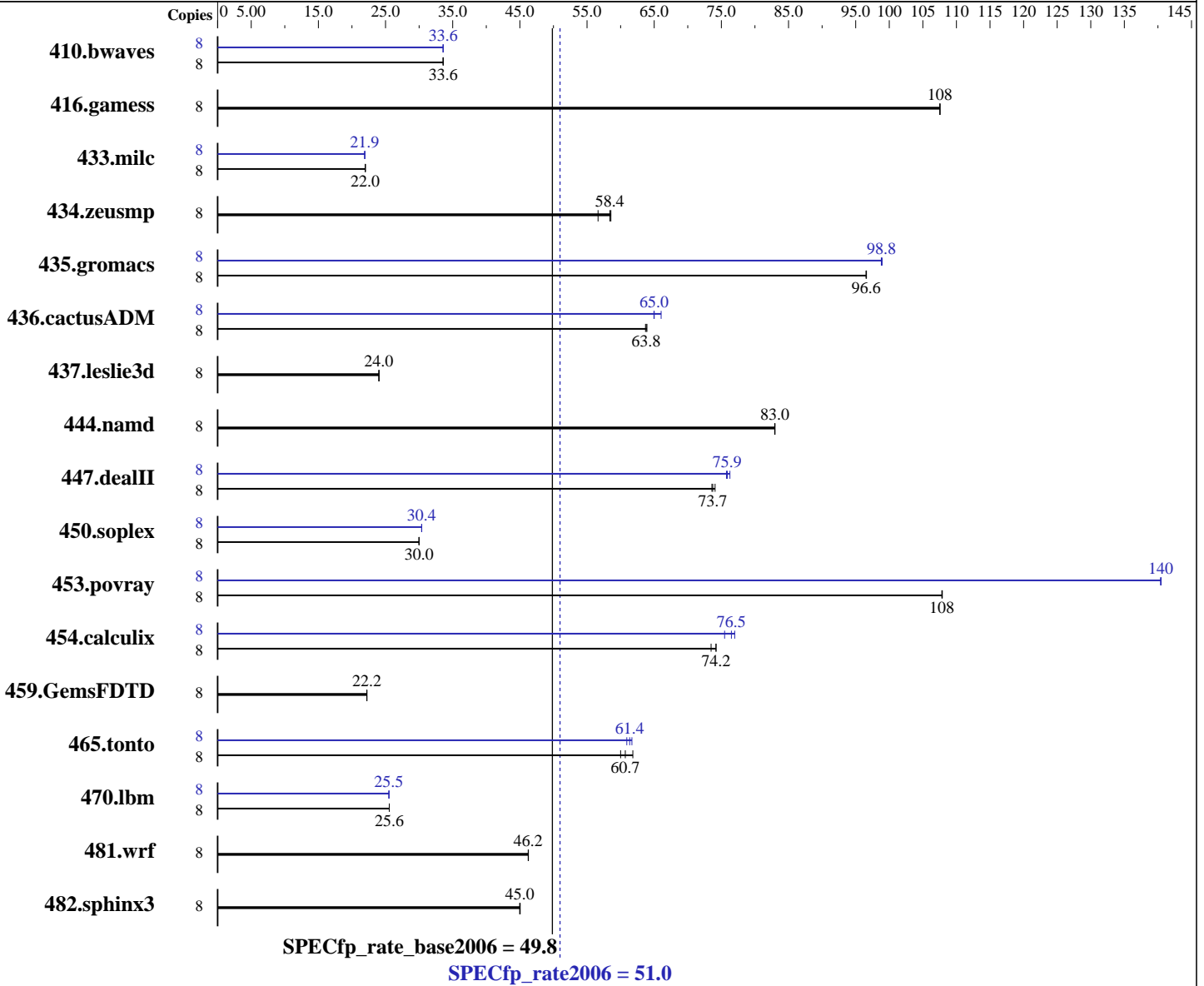
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2006



#### Hardware

CPU Name: Intel Xeon E5335  
 CPU Characteristics: E5335  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

Continued on next page

#### Software

Operating System: Windows XP, 64 bit Edition  
 Compiler: Intel C++ Compiler for EM64T-based applications  
 - version 9.1, Build 20061104  
 Intel Fortran Compiler for EM64T-based applications  
 - version 9.1, Build 20061104  
 Microsoft Visual Studio 2005 (for libraries)  
 Auto Parallel: No  
 File System: NTFS

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

## Fujitsu Siemens Computers

SPECfp\_rate2006 = **51.0**

## CELSIUS R640, Intel Xeon E5335 processor

SPECfp\_rate\_base2006 = **49.8**

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2006

### Hardware (Continued)

L3 Cache: None  
 Other Cache: None  
 Memory: 16 GB (8x2 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)  
 Disk Subsystem: SATA II 7200 rpm  
 Other Hardware: None

### Software (Continued)

System State: Default  
 Base Pointers: 64-bit  
 Peak Pointers: 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    | 8      | <b><u>3238</u></b> | <b><u>33.6</u></b> | 3239               | 33.6               | 3235               | 33.6               | 8      | <b><u>3236</u></b> | <b><u>33.6</u></b> | 3241               | 33.5               | 3236               | 33.6               |  |  |
| 416.gamess    | 8      | 1457               | 108                | 1456               | 108                | <b><u>1456</u></b> | <b><u>108</u></b>  | 8      | 1457               | 108                | 1456               | 108                | <b><u>1456</u></b> | <b><u>108</u></b>  |  |  |
| 433.milc      | 8      | 3341               | 22.0               | <b><u>3340</u></b> | <b><u>22.0</u></b> | 3340               | 22.0               | 8      | 3349               | 21.9               | <b><u>3352</u></b> | <b><u>21.9</u></b> | 3356               | 21.9               |  |  |
| 434.zeusmp    | 8      | <b><u>1247</u></b> | <b><u>58.4</u></b> | 1285               | 56.6               | 1243               | 58.6               | 8      | <b><u>1247</u></b> | <b><u>58.4</u></b> | 1285               | 56.6               | 1243               | 58.6               |  |  |
| 435.gromacs   | 8      | 591                | 96.6               | 592                | 96.5               | <b><u>591</u></b>  | <b><u>96.6</u></b> | 8      | 577                | 98.9               | 578                | 98.8               | <b><u>578</u></b>  | <b><u>98.8</u></b> |  |  |
| 436.cactusADM | 8      | <b><u>1498</u></b> | <b><u>63.8</u></b> | 1496               | 63.9               | 1501               | 63.7               | 8      | <b><u>1471</u></b> | <b><u>65.0</u></b> | 1448               | 66.0               | 1472               | 65.0               |  |  |
| 437.leslie3d  | 8      | <b><u>3131</u></b> | <b><u>24.0</u></b> | 3130               | 24.0               | 3131               | 24.0               | 8      | <b><u>3131</u></b> | <b><u>24.0</u></b> | 3130               | 24.0               | 3131               | 24.0               |  |  |
| 444.namd      | 8      | 773                | 83.0               | <b><u>773</u></b>  | <b><u>83.0</u></b> | 774                | 82.9               | 8      | 773                | 83.0               | <b><u>773</u></b>  | <b><u>83.0</u></b> | 774                | 82.9               |  |  |
| 447.dealII    | 8      | 1236               | 74.1               | 1244               | 73.6               | <b><u>1242</u></b> | <b><u>73.7</u></b> | 8      | 1200               | 76.3               | 1208               | 75.8               | <b><u>1206</u></b> | <b><u>75.9</u></b> |  |  |
| 450.soplex    | 8      | 2226               | 30.0               | <b><u>2225</u></b> | <b><u>30.0</u></b> | 2224               | 30.0               | 8      | 2195               | 30.4               | 2197               | 30.4               | <b><u>2196</u></b> | <b><u>30.4</u></b> |  |  |
| 453.povray    | 8      | <b><u>395</u></b>  | <b><u>108</u></b>  | 395                | 108                | 394                | 108                | 8      | 303                | 140                | <b><u>303</u></b>  | <b><u>140</u></b>  | 303                | 140                |  |  |
| 454.calculix  | 8      | <b><u>890</u></b>  | <b><u>74.2</u></b> | 889                | 74.2               | 898                | 73.5               | 8      | 857                | 77.0               | 874                | 75.5               | <b><u>863</u></b>  | <b><u>76.5</u></b> |  |  |
| 459.GemsFDTD  | 8      | 3822               | 22.2               | 3817               | 22.2               | <b><u>3822</u></b> | <b><u>22.2</u></b> | 8      | 3822               | 22.2               | 3817               | 22.2               | <b><u>3822</u></b> | <b><u>22.2</u></b> |  |  |
| 465.tonto     | 8      | 1312               | 60.0               | 1273               | 61.8               | <b><u>1297</u></b> | <b><u>60.7</u></b> | 8      | 1292               | 60.9               | 1276               | 61.7               | <b><u>1283</u></b> | <b><u>61.4</u></b> |  |  |
| 470.lbm       | 8      | 4302               | 25.6               | <b><u>4301</u></b> | <b><u>25.6</u></b> | 4301               | 25.6               | 8      | 4309               | 25.5               | 4310               | 25.5               | <b><u>4309</u></b> | <b><u>25.5</u></b> |  |  |
| 481.wrf       | 8      | <b><u>1932</u></b> | <b><u>46.2</u></b> | 1932               | 46.2               | 1931               | 46.3               | 8      | <b><u>1932</u></b> | <b><u>46.2</u></b> | 1932               | 46.2               | 1931               | 46.3               |  |  |
| 482.sphinx3   | 8      | <b><u>3465</u></b> | <b><u>45.0</u></b> | 3461               | 45.0               | 3466               | 45.0               | 8      | <b><u>3465</u></b> | <b><u>45.0</u></b> | 3461               | 45.0               | 3466               | 45.0               |  |  |

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Platform Notes

BIOS default settings have been used, except:  
High Bandwith Option Enabled

## General Notes

'start /b /wait /affinity' command is used to bind CPU(s) to processes

For information about Fujitsu Siemens Computers in your country please see:  
<http://www.fujitsu-siemens.com/countries>



# SPEC CFP2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp\_rate2006 = 51.0

CELSIUS R640, Intel Xeon E5335 processor

SPECfp\_rate\_base2006 = 49.8

CPU2006 license: 22

Test date: Feb-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Nov-2006

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2006

## Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc8 -Qc99 ifort

## Portability Flags

410.bwaves: -DSPEC\_CPU\_P64  
416.gamess: -DSPEC\_CPU\_P64  
433.milc: -D\_Complex= -DSPEC\_CPU\_P64  
434.zeusmp: -DSPEC\_CPU\_P64  
435.gromacs: -D\_Complex= -DSPEC\_CPU\_P64  
436.cactusADM: -D\_Complex= -DSPEC\_CPU\_P64 -Qlowercase /assume:underscore  
437.leslie3d: -DSPEC\_CPU\_P64  
444.namd: -DSPEC\_CPU\_P64 /TP  
447.dealII: -D\_Complex= -DSPEC\_CPU\_P64 -DBOOST\_NO\_INTRINSIC\_WCHAR\_T  
-DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
450.soplex: -DSPEC\_CPU\_P64  
453.povray: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WINDOWS\_ICL  
454.calculix: -D\_Complex= -DSPEC\_CPU\_P64 -DSPEC\_CPU\_NOZMODIFIER  
-Qlowercase  
459.GemsFDTD: -DSPEC\_CPU\_P64  
465.tonto: -DSPEC\_CPU\_P64  
470.lbm: -D\_Complex= -DSPEC\_CPU\_P64  
481.wrf: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WINDOWS\_ICL  
482.sphinx3: -D\_Complex= -DSPEC\_CPU\_P64

## Base Optimization Flags

C benchmarks:

-fast -F950000000

C++ benchmarks:

-fast -Qcxx-features -F950000000

Fortran benchmarks:

-fast -F950000000

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp\_rate2006 = 51.0

CELSIUS R640, Intel Xeon E5335 processor

SPECfp\_rate\_base2006 = 49.8

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2006

## Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:

-fast -F950000000

## Peak Optimization Flags

C benchmarks:

433.milc: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -F950000000

470.lbm: Same as 433.milc

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qcxx-features  
-F950000000

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

Fortran benchmarks:

410.bwaves: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -F950000000

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

435.gromacs: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -F950000000

436.cactusADM: Same as 435.gromacs

454.calculix: Same as 435.gromacs

481.wrf: basepeak = yes



# SPEC CFP2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp\_rate2006 = 51.0

CELSIUS R640, Intel Xeon E5335 processor

SPECfp\_rate\_base2006 = 49.8

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2006

The flags file that was used to format this result can be browsed at

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.20.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.20.html)

You can also download the XML flags source by saving the following link:

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.20.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.20.xml)

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 Wed Jul 15 13:15:16 2009 by SPEC CPU2006 PS/PDF formatter v6323.