



# SPEC<sup>®</sup> CFP2006 Result

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## Fujitsu Siemens Computers

### SPECfp<sup>®</sup>\_rate2006 = 30.7

### CELSIUS M460, Intel Core 2 Duo E6850 processor

### SPECfp\_rate\_base2006 = 28.9

CPU2006 license: 22

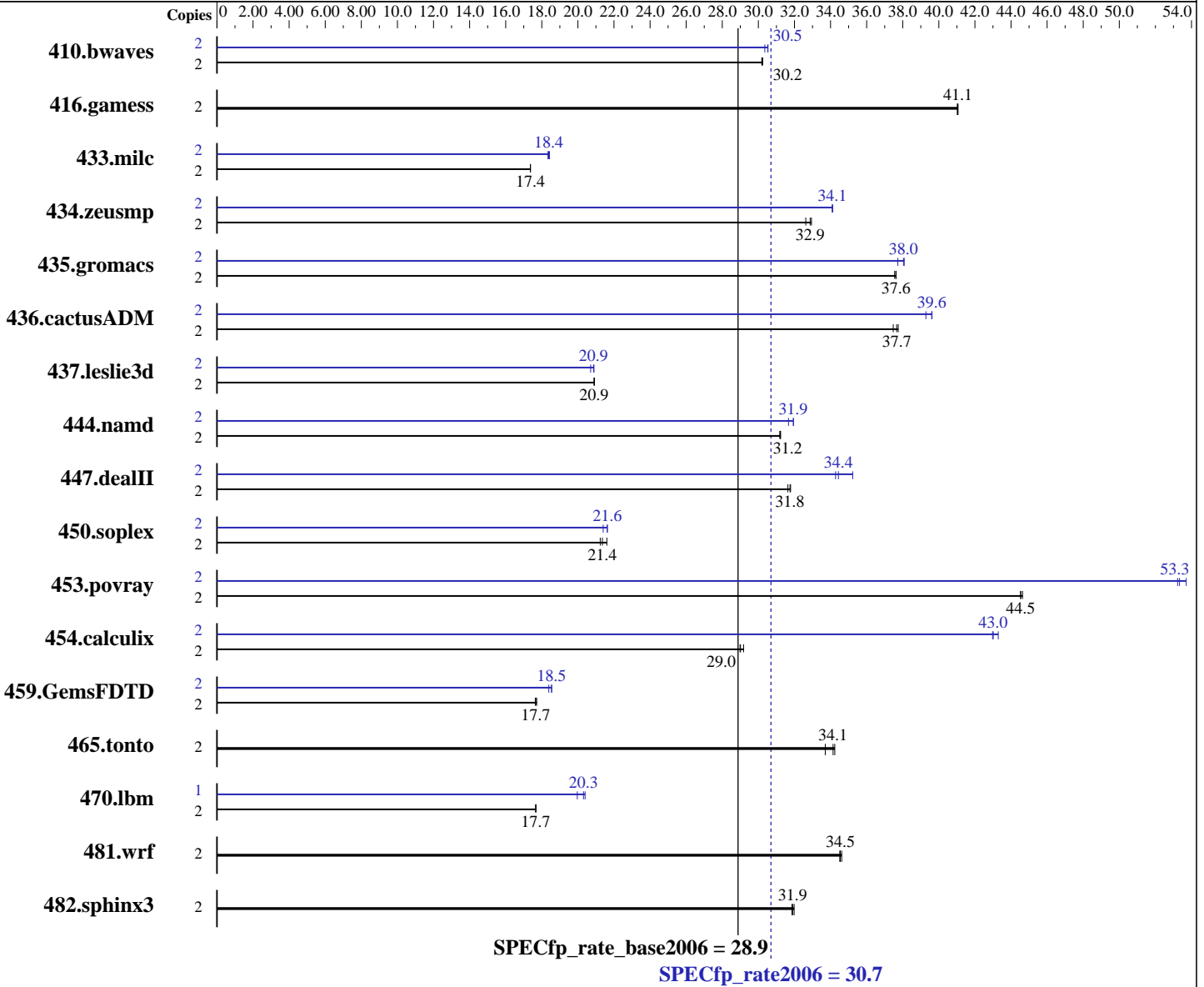
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Dec-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007



#### Hardware

CPU Name: Intel Core 2 Duo E6850  
 CPU Characteristics:  
 CPU MHz: 3000  
 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: 4 MB I+D on chip per chip

Continued on next page

#### Software

Operating System: Microsoft Windows Vista Ultimate (x64)  
 Compiler: Intel C++ and Fortran Compilers for Intel64, Version 10.1, Build 20070913  
 Microsoft Visual Studio 2005 with SP1 (for libraries)  
 Auto Parallel: No  
 File System: NTFS

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### Hardware (Continued)

L3 Cache: None  
 Other Cache: None  
 Memory: 4 GB (4x1 GB PC2-6400 CL6 SDRAM)  
 Disk Subsystem: 1 x 400 GB SATA II 7200 RPM  
 Other Hardware: None

### Software (Continued)

System State: Default  
 Base Pointers: 64-bit  
 Peak Pointers: 64-bit  
 Other Software: MicroQuill SmartHeap Library, Version 8.0 (64 bit)

## Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	2	899	30.2	900	30.2	<b>900</b>	<b>30.2</b>	2	<b>891</b>	<b>30.5</b>	890	30.5	895	30.4		
416.gamess	2	955	41.0	<b>954</b>	<b>41.1</b>	954	41.1	2	955	41.0	<b>954</b>	<b>41.1</b>	954	41.1		
433.milc	2	<b>1057</b>	<b>17.4</b>	1057	17.4	1057	17.4	2	<b>999</b>	<b>18.4</b>	996	18.4	1001	18.3		
434.zeusmp	2	552	32.9	558	32.6	<b>554</b>	<b>32.9</b>	2	534	34.1	<b>534</b>	<b>34.1</b>	533	34.1		
435.gromacs	2	380	37.6	<b>380</b>	<b>37.6</b>	380	37.6	2	375	38.1	<b>375</b>	<b>38.0</b>	379	37.7		
436.cactusADM	2	<b>635</b>	<b>37.7</b>	633	37.8	638	37.5	2	603	39.6	<b>603</b>	<b>39.6</b>	608	39.3		
437.leslie3d	2	900	20.9	<b>899</b>	<b>20.9</b>	899	20.9	2	900	20.9	<b>901</b>	<b>20.9</b>	908	20.7		
444.namd	2	514	31.2	<b>514</b>	<b>31.2</b>	514	31.2	2	<b>502</b>	<b>31.9</b>	502	31.9	506	31.7		
447.dealII	2	720	31.8	723	31.6	<b>721</b>	<b>31.8</b>	2	667	34.3	<b>664</b>	<b>34.4</b>	649	35.2		
450.soplex	2	785	21.2	<b>781</b>	<b>21.4</b>	772	21.6	2	771	21.6	<b>771</b>	<b>21.6</b>	779	21.4		
453.povray	2	239	44.5	238	44.6	<b>239</b>	<b>44.5</b>	2	198	53.7	<b>199</b>	<b>53.3</b>	200	53.2		
454.calculix	2	569	29.0	565	29.2	<b>569</b>	<b>29.0</b>	2	381	43.3	384	43.0	<b>384</b>	<b>43.0</b>		
459.GemsFDTD	2	<b>1201</b>	<b>17.7</b>	1198	17.7	1203	17.6	2	1154	18.4	<b>1145</b>	<b>18.5</b>	1144	18.5		
465.tonto	2	575	34.2	<b>576</b>	<b>34.1</b>	584	33.7	2	575	34.2	<b>576</b>	<b>34.1</b>	584	33.7		
470.lbm	2	1555	17.7	1556	17.7	<b>1555</b>	<b>17.7</b>	1	674	20.4	688	20.0	<b>677</b>	<b>20.3</b>		
481.wrf	2	647	34.5	<b>647</b>	<b>34.5</b>	645	34.6	2	647	34.5	<b>647</b>	<b>34.5</b>	645	34.6		
482.sphinx3	2	1219	32.0	1223	31.9	<b>1222</b>	<b>31.9</b>	2	1219	32.0	1223	31.9	<b>1222</b>	<b>31.9</b>		

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.

## General Notes

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



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## 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: -DSPEC\_CPU\_P64  
434.zeusmp: -DSPEC\_CPU\_P64  
435.gromacs: -DSPEC\_CPU\_P64  
436.cactusADM: -DSPEC\_CPU\_P64 -Qlowercase -assume:underscore  
437.leslie3d: -DSPEC\_CPU\_P64  
444.namd: -DSPEC\_CPU\_P64 -TP  
447.dealII: -DSPEC\_CPU\_P64 -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
450.soplex: -DSPEC\_CPU\_P64  
453.povray: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WINDOWS\_ICL  
454.calculix: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_NOZMODIFIER -Qlowercase  
459.GemsFDTD: -DSPEC\_CPU\_P64  
465.tonto: -DSPEC\_CPU\_P64  
470.lbm: -DSPEC\_CPU\_P64  
481.wrf: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WINDOWS\_ICL  
482.sphinx3: -DSPEC\_CPU\_P64

## Base Optimization Flags

C benchmarks:

-fast -F950000000 shlW64M.lib

C++ benchmarks:

-fast -Qcxx-features -F950000000 shlW64M.lib

Fortran benchmarks:

-fast -F950000000

Benchmarks using both Fortran and C:

-fast -F950000000



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## Peak Optimization Flags

C benchmarks:

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

470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch -F950000000

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: -fast -Oa -F950000000 sh1W64M.lib

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: -QxT -O2 -Qprec-div- -Qunroll10 -Qscalar-rep- -F950000000

437.leslie3d: Same as 410.bwaves

459.GemsFDTD: -fast -Qunroll2 -Ob0 -Qprefetch -F950000000

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

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

436.cactusADM: -fast -Qunroll2 -Qprefetch -F950000000

454.calculix: -fast -Qunroll-aggressive -F950000000

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.20090713.03.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.03.html)

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090713.03.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.03.xml)



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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 14 10:48:58 2009 by SPEC CPU2006 PS/PDF formatter v6323.