



# SPEC® CFP2006 Result

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## Fujitsu Siemens Computers

**SPECfp®2006 = 23.1**

CELSIUS M460, Intel Core 2 Duo E8600 processor

**SPECfp\_base2006 = 21.6**

CPU2006 license: 22

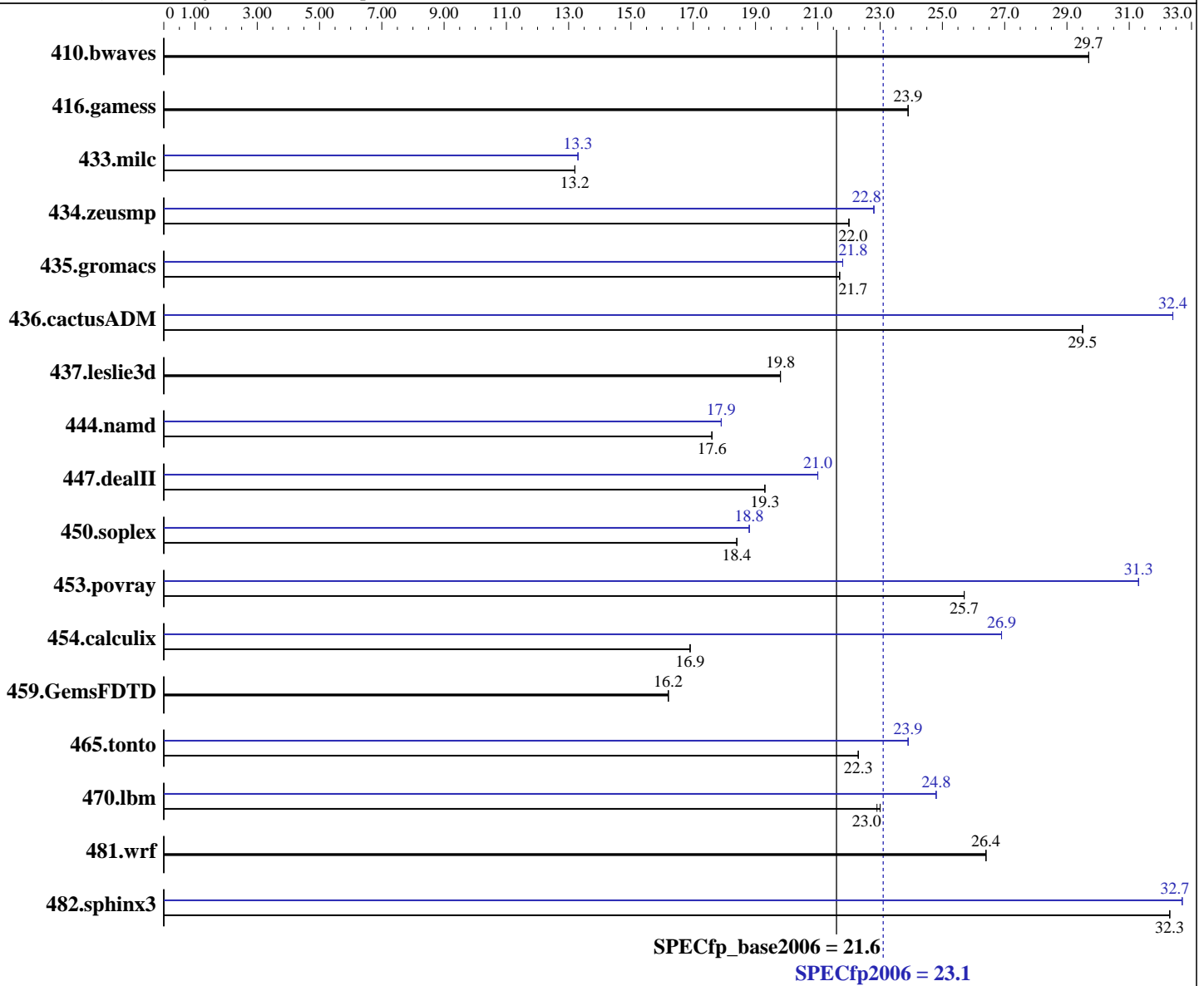
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Oct-2008

Hardware Availability: Sep-2008

Software Availability: Feb-2008



### Hardware

CPU Name: Intel Core 2 Duo E8600  
 CPU Characteristics:  
 CPU MHz: 3333  
 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: 6 MB I+D on chip per chip

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### Software

Operating System: Windows Vista Ultimate (x64)

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

Compiler: Intel C++ Compiler for applications running on Intel 64, Version 10.1, Build 20080212  
 Intel Visual Fortran Compiler for applications running on Intel 64, Version 10.1, Build 20080212  
 Microsoft Visual Studio 2005 with SP1 (for libraries)

Auto Parallel: Yes  
 File System: NTFS  
 System State: Default  
 Base Pointers: 64-bit  
 Peak Pointers: 64-bit  
 Other Software: MicroQuill SmartHeap Library 8.0 (64 bit)

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	<b>457</b>	<b>29.7</b>	457	29.7	457	29.7	<b>457</b>	<b>29.7</b>	457	29.7	457	29.7
416.gamess	819	23.9	<b>819</b>	<b>23.9</b>	819	23.9	819	23.9	<b>819</b>	<b>23.9</b>	819	23.9
433.milc	694	13.2	<b>695</b>	<b>13.2</b>	696	13.2	<b>692</b>	<b>13.3</b>	692	13.3	691	13.3
434.zeusmp	414	22.0	414	22.0	<b>414</b>	<b>22.0</b>	400	22.8	399	22.8	<b>399</b>	<b>22.8</b>
435.gromacs	330	21.7	330	21.7	<b>330</b>	<b>21.7</b>	328	21.8	328	21.8	<b>328</b>	<b>21.8</b>
436.cactusADM	405	29.5	<b>406</b>	<b>29.5</b>	406	29.5	369	32.4	369	32.4	<b>369</b>	<b>32.4</b>
437.lelie3d	475	19.8	<b>476</b>	<b>19.8</b>	476	19.8	475	19.8	<b>476</b>	<b>19.8</b>	476	19.8
444.namd	456	17.6	<b>456</b>	<b>17.6</b>	456	17.6	449	17.9	<b>449</b>	<b>17.9</b>	449	17.9
447.dealII	593	19.3	<b>593</b>	<b>19.3</b>	593	19.3	<b>545</b>	<b>21.0</b>	545	21.0	546	21.0
450.soplex	<b>453</b>	<b>18.4</b>	453	18.4	453	18.4	445	18.8	<b>445</b>	<b>18.8</b>	445	18.8
453.povray	207	25.7	<b>207</b>	<b>25.7</b>	207	25.7	170	31.3	170	31.3	<b>170</b>	<b>31.3</b>
454.calculix	<b>489</b>	<b>16.9</b>	488	16.9	489	16.9	307	26.9	307	26.9	<b>307</b>	<b>26.9</b>
459.GemsFDTD	<b>654</b>	<b>16.2</b>	654	16.2	654	16.2	<b>654</b>	<b>16.2</b>	654	16.2	654	16.2
465.tonto	441	22.3	441	22.3	<b>441</b>	<b>22.3</b>	<b>412</b>	<b>23.9</b>	412	23.9	412	23.9
470.lbm	598	23.0	<b>599</b>	<b>23.0</b>	599	22.9	554	24.8	<b>554</b>	<b>24.8</b>	554	24.8
481.wrf	423	26.4	<b>423</b>	<b>26.4</b>	423	26.4	423	26.4	<b>423</b>	<b>26.4</b>	423	26.4
482.sphinx3	603	32.3	603	32.3	<b>603</b>	<b>32.3</b>	596	32.7	595	32.7	<b>595</b>	<b>32.7</b>

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

## Operating System Notes

Screen Saver was disabled  
 Power scheme was set to Always On, modified to Turnoff monitor: Never.



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## Platform Notes

BIOS default settings have been used.

## General Notes

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

## Base Compiler Invocation

C benchmarks:  
icl -Qvc8 -Qc99

C++ benchmarks:  
icl -Qvc8

Fortran benchmarks:  
ifort

Benchmarks using both Fortran and C:  
icl -Qvc8 -Qc99 ifort

## Base 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 -Qparallel -F1000000000 libguide40.lib

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## Base Optimization Flags (Continued)

C++ benchmarks:

-fast -Qparallel -Qcxx-features -F1000000000 libguide40.lib  
sh1W64M.lib -link -FORCE:MULTIPLE

Fortran benchmarks:

-fast -Qparallel -F1000000000 libguide40.lib

Benchmarks using both Fortran and C:

-fast -Qparallel -F1000000000 libguide40.lib

## Peak Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc8 -Qc99 ifort

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

433.milc: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -F1000000000  
libguide40.lib

470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch -F1000000000  
libguide40.lib

482.sphinx3: -fast -Qunroll2 -F1000000000 libguide40.lib

C++ benchmarks:

444.namd: -fast -Qcxx-features -Oa -F1000000000 libguide40.lib  
sh1W64M.lib -link -FORCE:MULTIPLE

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## Peak Optimization Flags (Continued)

447.dealII: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qcxx-features  
-F1000000000 libguide40.lib sh1W64M.lib  
-link -FORCE:MULTIPLE

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

### Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: -O2 -Qunroll0 -QxT -Qscalar-rep- -Qprec-div- -F1000000000  
libguide40.lib

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -fast -Qunroll14 -Qauto -F1000000000 libguide40.lib

### Benchmarks using both Fortran and C:

435.gromacs: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -F1000000000  
libguide40.lib

436.cactusADM: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qparallel  
-Qprefetch -Qunroll2 -F1000000000 libguide40.lib

454.calculix: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast  
-Qunroll-aggressive -F1000000000 libguide40.lib

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.20090713.00.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.00.html)

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090713.00.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.00.xml)



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

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