



# SPEC® CFP2006 Result

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## Fujitsu Siemens Computers

### SPECfp®\_rate2006 = 47.0

### CELSIUS M460, Intel Core 2 Extreme QX9650

### SPECfp\_rate\_base2006 = 44.4

CPU2006 license: 22

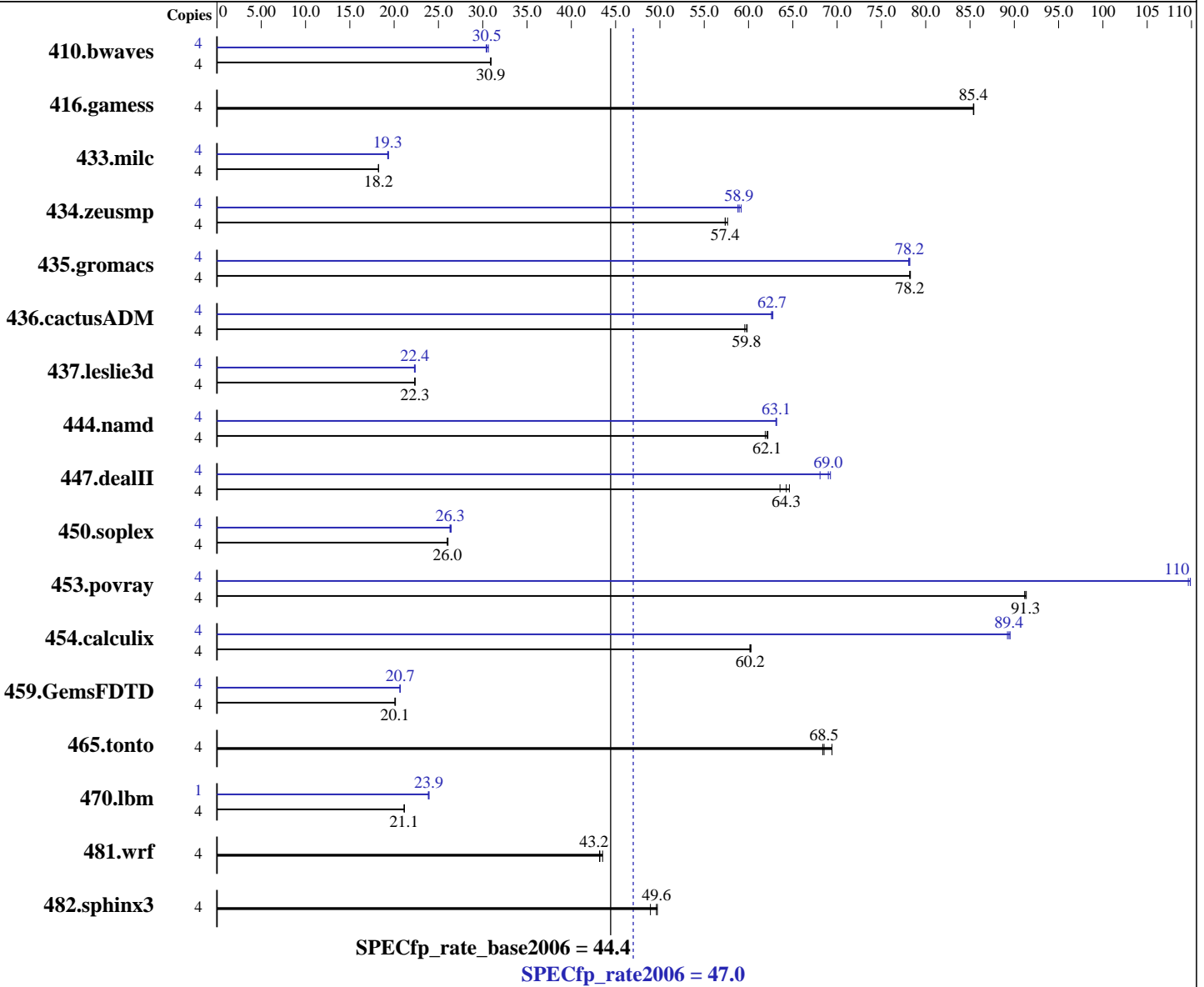
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



#### Hardware

CPU Name: Intel Core 2 Extreme QX9650  
 CPU Characteristics:  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

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#### Software

Operating System: Windows Vista Ultimate, 64 bit Version

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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 20070913  
Intel Visual Fortran Compiler for applications running on Intel 64, Version 10.1, Build 20070913  
Microsoft Visual Studio 2005 with SP1 (for libraries)  
Auto Parallel: No  
File System: NTFS  
System State: Default  
Base Pointers: 64-bit  
Peak Pointers: 64-bit  
Other Software: SmartHeap Library Version 8.0 (64 bit) from <http://www.microquill.com/>

## Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	4	1760	30.9	1757	30.9	<b>1759</b>	<b>30.9</b>	4	1774	30.6	1789	30.4	<b>1784</b>	<b>30.5</b>		
416.gamess	4	<b>917</b>	<b>85.4</b>	917	85.4	917	85.4	4	<b>917</b>	<b>85.4</b>	917	85.4	917	85.4		
433.milc	4	<b>2013</b>	<b>18.2</b>	2013	18.2	2013	18.2	4	1905	19.3	<b>1904</b>	<b>19.3</b>	1896	19.4		
434.zeusmp	4	635	57.4	632	57.6	<b>634</b>	<b>57.4</b>	4	619	58.8	615	59.2	<b>618</b>	<b>58.9</b>		
435.gromacs	4	365	78.2	<b>365</b>	<b>78.2</b>	365	78.3	4	365	78.2	366	78.1	<b>365</b>	<b>78.2</b>		
436.cactusADM	4	802	59.6	799	59.9	<b>800</b>	<b>59.8</b>	4	764	62.6	<b>763</b>	<b>62.7</b>	762	62.7		
437.leslie3d	4	1681	22.4	<b>1684</b>	<b>22.3</b>	1684	22.3	4	1687	22.3	<b>1682</b>	<b>22.4</b>	1681	22.4		
444.namd	4	<b>517</b>	<b>62.1</b>	516	62.2	518	61.9	4	508	63.1	508	63.2	<b>508</b>	<b>63.1</b>		
447.dealII	4	720	63.6	708	64.6	<b>712</b>	<b>64.3</b>	4	672	68.1	<b>663</b>	<b>69.0</b>	661	69.2		
450.soplex	4	1279	26.1	<b>1282</b>	<b>26.0</b>	1283	26.0	4	<b>1267</b>	<b>26.3</b>	1268	26.3	1262	26.4		
453.povray	4	233	91.4	<b>233</b>	<b>91.3</b>	233	91.2	4	194	110	194	110	<b>194</b>	<b>110</b>		
454.calculix	4	<b>548</b>	<b>60.2</b>	549	60.2	547	60.3	4	370	89.2	<b>369</b>	<b>89.4</b>	369	89.5		
459.GemsFDTD	4	2112	20.1	2106	20.2	<b>2111</b>	<b>20.1</b>	4	2053	20.7	<b>2053</b>	<b>20.7</b>	2054	20.7		
465.tonto	4	567	69.4	576	68.4	<b>574</b>	<b>68.5</b>	4	567	69.4	576	68.4	<b>574</b>	<b>68.5</b>		
470.lbm	4	<b>2600</b>	<b>21.1</b>	2598	21.2	2601	21.1	1	576	23.9	574	23.9	<b>574</b>	<b>23.9</b>		
481.wrf	4	<b>1034</b>	<b>43.2</b>	1026	43.5	1035	43.2	4	<b>1034</b>	<b>43.2</b>	1026	43.5	1035	43.2		
482.sphinx3	4	<b>1571</b>	<b>49.6</b>	1568	49.7	1593	48.9	4	<b>1571</b>	<b>49.6</b>	1568	49.7	1593	48.9		

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.



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## 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 -F950000000 sh1W64M.lib

C++ benchmarks:  
-fast -Qcxx-features -F950000000 sh1W64M.lib

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## Base Optimization Flags (Continued)

Fortran benchmarks:

-fast -F950000000

Benchmarks using both Fortran and C:

-fast -F950000000

## 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 -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

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## Peak Optimization Flags (Continued)

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- -Qunroll0 -Qscalar-rep- -F950000000

437.leslie3d: Same as 410.bwaves

459.GemsFDTD: -fast -Qunroll12 -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 -Qunroll12 -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 questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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