



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

SPECfp®_rate2006 = 32.1

CELSIUS M460, Intel Core 2 Duo E8400

SPECfp_rate_base2006 = 30.0

CPU2006 license: 22

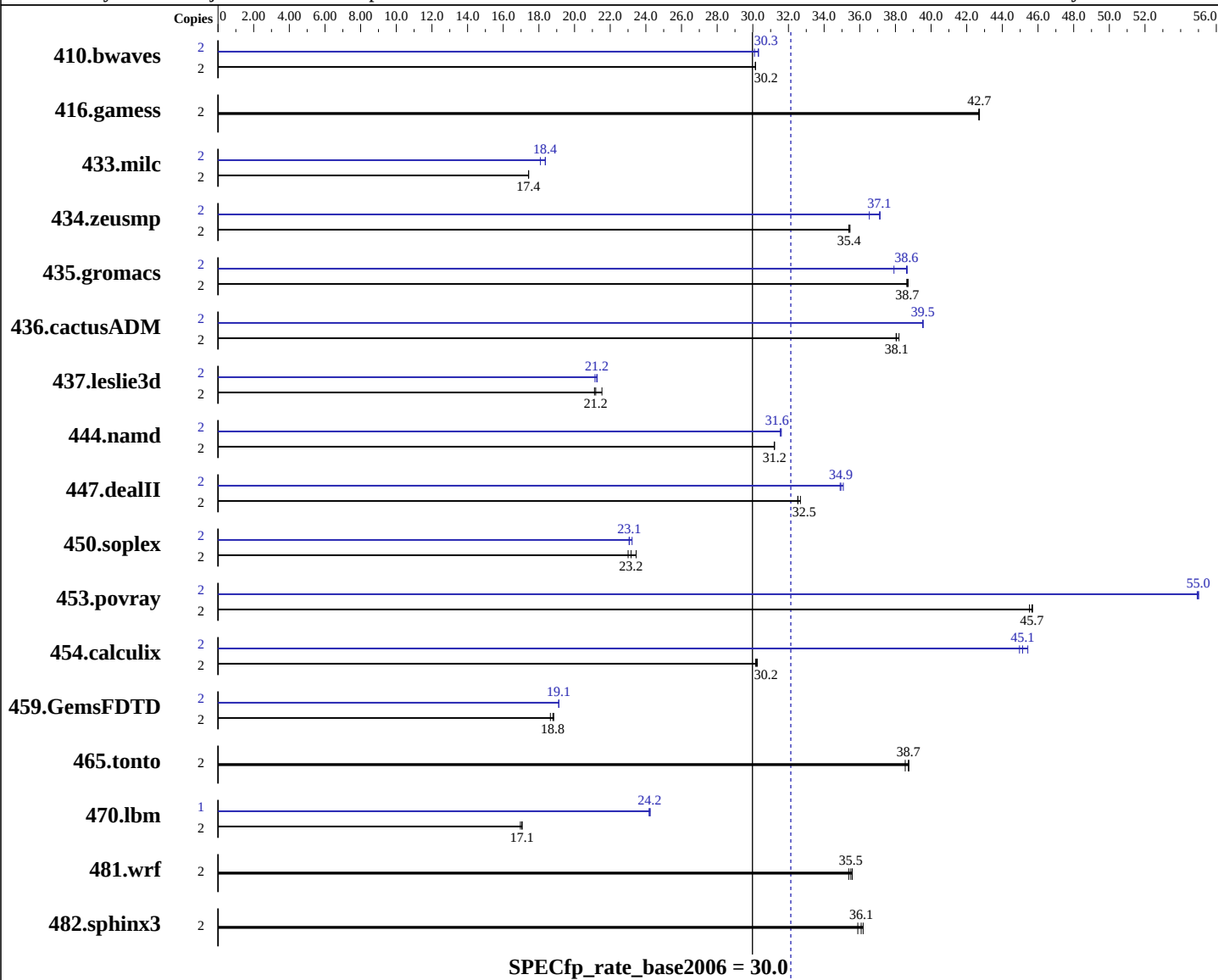
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Mar-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



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Hardware

CPU Name: Intel Core 2 Duo E8400
 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: 6 MB I+D on chip per chip

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Software

Operating System: Windows Vista Ultimate, 64 bit Version

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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 7200 RPM
 Other Hardware: None

Software (Continued)

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	2	<u>901</u>	<u>30.2</u>	902	30.1	901	30.2	2	903	30.1	896	30.3	<u>897</u>	<u>30.3</u>
416.gamess	2	918	42.7	917	42.7	<u>917</u>	<u>42.7</u>	2	918	42.7	917	42.7	<u>917</u>	<u>42.7</u>
433.milc	2	1054	17.4	1054	17.4	<u>1054</u>	<u>17.4</u>	2	1015	18.1	1000	18.4	<u>1000</u>	<u>18.4</u>
434.zeusmp	2	514	35.4	513	35.5	<u>514</u>	<u>35.4</u>	2	498	36.5	<u>490</u>	<u>37.1</u>	490	37.1
435.gromacs	2	370	38.6	<u>369</u>	<u>38.7</u>	369	38.7	2	377	37.9	<u>370</u>	<u>38.6</u>	369	38.7
436.cactusADM	2	626	38.2	<u>628</u>	<u>38.1</u>	628	38.0	2	604	39.6	<u>604</u>	<u>39.5</u>	605	39.5
437.leslie3d	2	873	21.5	<u>887</u>	<u>21.2</u>	890	21.1	2	884	21.3	889	21.1	<u>885</u>	<u>21.2</u>
444.namd	2	514	31.2	514	31.2	<u>514</u>	<u>31.2</u>	2	<u>508</u>	<u>31.6</u>	508	31.6	508	31.5
447.dealII	2	700	32.7	703	32.5	<u>703</u>	<u>32.5</u>	2	<u>655</u>	<u>34.9</u>	652	35.1	656	34.9
450.soplex	2	725	23.0	<u>720</u>	<u>23.2</u>	711	23.5	2	723	23.1	<u>723</u>	<u>23.1</u>	718	23.2
453.povray	2	233	45.7	234	45.5	<u>233</u>	<u>45.7</u>	2	194	54.9	<u>194</u>	<u>55.0</u>	193	55.0
454.calculix	2	545	30.3	<u>546</u>	<u>30.2</u>	547	30.2	2	363	45.4	<u>366</u>	<u>45.1</u>	367	45.0
459.GemsFDTD	2	<u>1130</u>	<u>18.8</u>	1127	18.8	1138	18.6	2	<u>1110</u>	<u>19.1</u>	1110	19.1	1109	19.1
465.tonto	2	508	38.8	<u>508</u>	<u>38.7</u>	511	38.5	2	508	38.8	<u>508</u>	<u>38.7</u>	511	38.5
470.lbm	2	<u>1611</u>	<u>17.1</u>	1611	17.1	1620	17.0	1	568	24.2	<u>567</u>	<u>24.2</u>	567	24.2
481.wrf	2	<u>629</u>	<u>35.5</u>	628	35.6	631	35.4	2	<u>629</u>	<u>35.5</u>	628	35.6	631	35.4
482.sphinx3	2	<u>1080</u>	<u>36.1</u>	1077	36.2	1086	35.9	2	<u>1080</u>	<u>36.1</u>	1077	36.2	1086	35.9

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/>

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

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Base Optimization Flags (Continued)

Fortran benchmarks:

-fast -F950000000

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: -fast -Qunroll2 -Qscalar-rep- -Qprefetch -F950000000

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: -fast -Oa -F950000000 shlw64M.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- -Qunroll0 -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

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Peak Optimization Flags (Continued)

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.20080124.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20080124.00.xml

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For other inquiries, please contact webmaster@spec.org.

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