



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

SPECfp®_rate2006 = 22.6

CELSIUS H250, Intel Core 2 Duo T7700 processor

SPECfp_rate_base2006 = 22.4

CPU2006 license: 22

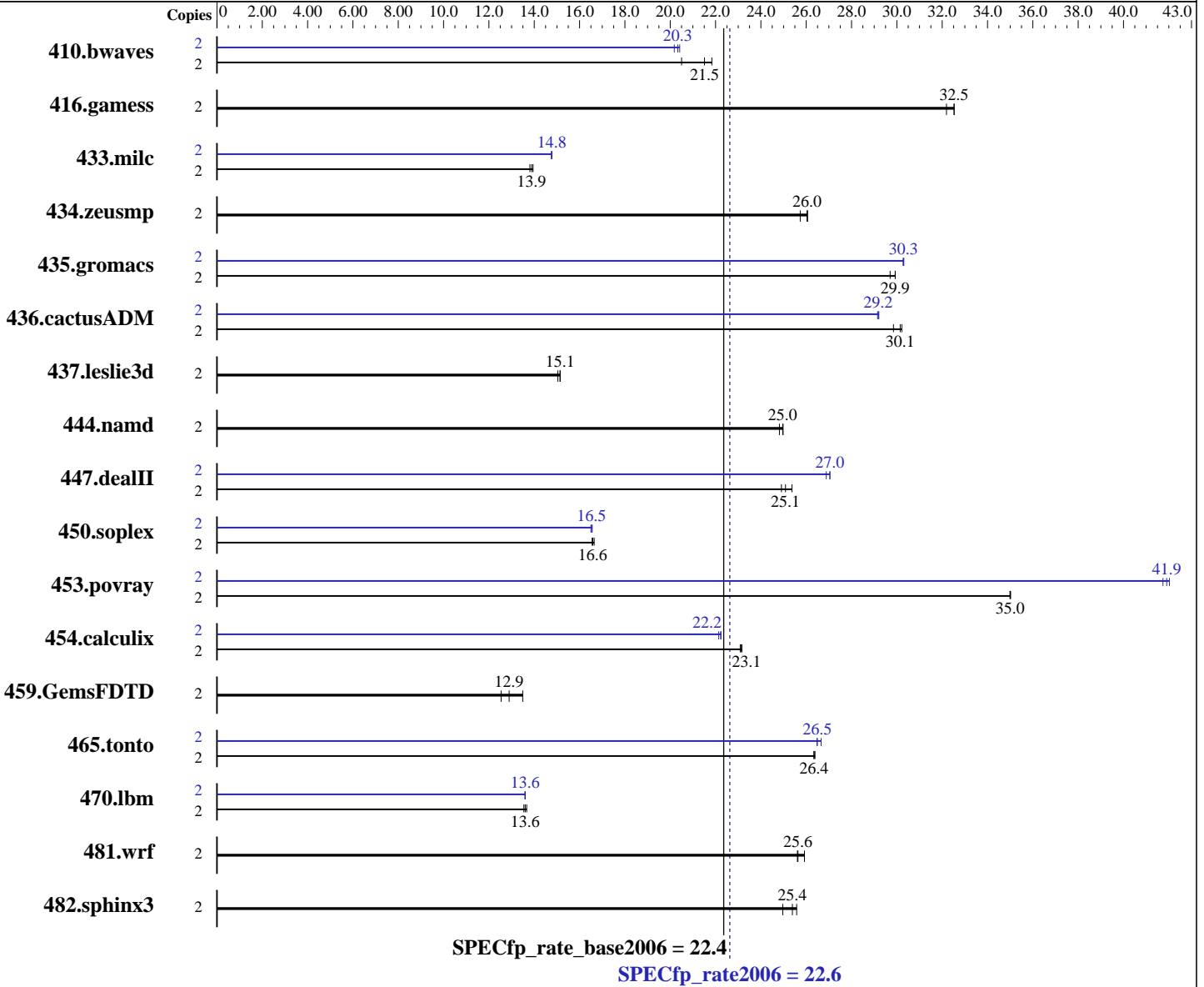
Test date: Aug-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Jul-2007

Tested by: Fujitsu Siemens Computers

Software Availability: Jun-2007



Hardware

CPU Name: Intel Core 2 Duo T7700
 CPU Characteristics:
 CPU MHz: 2400
 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

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Software

Operating System: Windows Vista Ultimate, 64 bit Version

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L3 Cache: None
 Other Cache: None
 Memory: 2 GB (2x1 GB 667 MHz CL5 DDR2 SDRAM)
 Disk Subsystem: 1 x 80 GB SATA 7200 RPM
 Other Hardware: None

Compiler: Intel C++ Compiler
 . for applications running on Intel 64,
 . Version 10.0.026, Build 20070613
 Intel Visual Fortran Compiler
 . for applications running on Intel 64,
 . Version 10.0.026, Build 20070613
 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: Microquill SmartHeap Library 8.0 (64-bit version)

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	<u>1264</u>	<u>21.5</u>	1245	21.8	1326	20.5	2	1331	20.4	1347	20.2	<u>1337</u>	<u>20.3</u>
416.gamess	2	<u>1204</u>	<u>32.5</u>	1204	32.5	1217	32.2	2	<u>1204</u>	<u>32.5</u>	1204	32.5	1217	32.2
433.milc	2	1316	13.9	<u>1322</u>	<u>13.9</u>	1330	13.8	2	1243	14.8	1244	14.8	<u>1243</u>	<u>14.8</u>
434.zeusmp	2	<u>699</u>	<u>26.0</u>	698	26.1	707	25.7	2	<u>699</u>	<u>26.0</u>	698	26.1	707	25.7
435.gromacs	2	<u>477</u>	<u>29.9</u>	477	29.9	481	29.7	2	472	30.3	471	30.3	<u>471</u>	<u>30.3</u>
436.cactusADM	2	<u>793</u>	<u>30.1</u>	791	30.2	801	29.9	2	<u>819</u>	<u>29.2</u>	820	29.1	818	29.2
437.leslie3d	2	1242	15.1	<u>1242</u>	<u>15.1</u>	1250	15.0	2	1242	15.1	<u>1242</u>	<u>15.1</u>	1250	15.0
444.namd	2	<u>643</u>	<u>25.0</u>	642	25.0	646	24.8	2	<u>643</u>	<u>25.0</u>	642	25.0	646	24.8
447.dealII	2	902	25.4	<u>912</u>	<u>25.1</u>	919	24.9	2	<u>846</u>	<u>27.0</u>	846	27.0	851	26.9
450.soplex	2	1002	16.6	<u>1006</u>	<u>16.6</u>	1008	16.6	2	1007	16.6	<u>1009</u>	<u>16.5</u>	1011	16.5
453.povray	2	304	35.0	304	35.0	<u>304</u>	<u>35.0</u>	2	255	41.7	253	42.0	<u>254</u>	<u>41.9</u>
454.calculix	2	715	23.1	712	23.2	<u>714</u>	<u>23.1</u>	2	745	22.1	<u>742</u>	<u>22.2</u>	742	22.2
459.GemsFDTD	2	1573	13.5	<u>1646</u>	<u>12.9</u>	1693	12.5	2	1573	13.5	<u>1646</u>	<u>12.9</u>	1693	12.5
465.tonto	2	746	26.4	<u>747</u>	<u>26.4</u>	747	26.3	2	743	26.5	738	26.7	<u>743</u>	<u>26.5</u>
470.lbm	2	2011	13.7	2029	13.5	<u>2021</u>	<u>13.6</u>	2	2021	13.6	2021	13.6	<u>2021</u>	<u>13.6</u>
481.wrf	2	862	25.9	<u>871</u>	<u>25.6</u>	872	25.6	2	862	25.9	<u>871</u>	<u>25.6</u>	872	25.6
482.sphinx3	2	1524	25.6	1561	25.0	<u>1535</u>	<u>25.4</u>	2	1524	25.6	1561	25.0	<u>1535</u>	<u>25.4</u>

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

'start /b /wait /affinity' command is used to bind CPU(s) to processors. The Windows command "start /b /wait /affinity <hex_affinity_mask> application" starts the specified application without creating a new window (/b) and waits for its termination (/wait). Only the processors specified in <hex_affinity_mask> are allowed to execute the application. See the Windows documentation for the description of other parameters of the start command.

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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.deallI: -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



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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

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: Same as 433.milc

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: basepeak = yes

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Peak Optimization Flags (Continued)

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

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.32.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.32.xml

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

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