



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

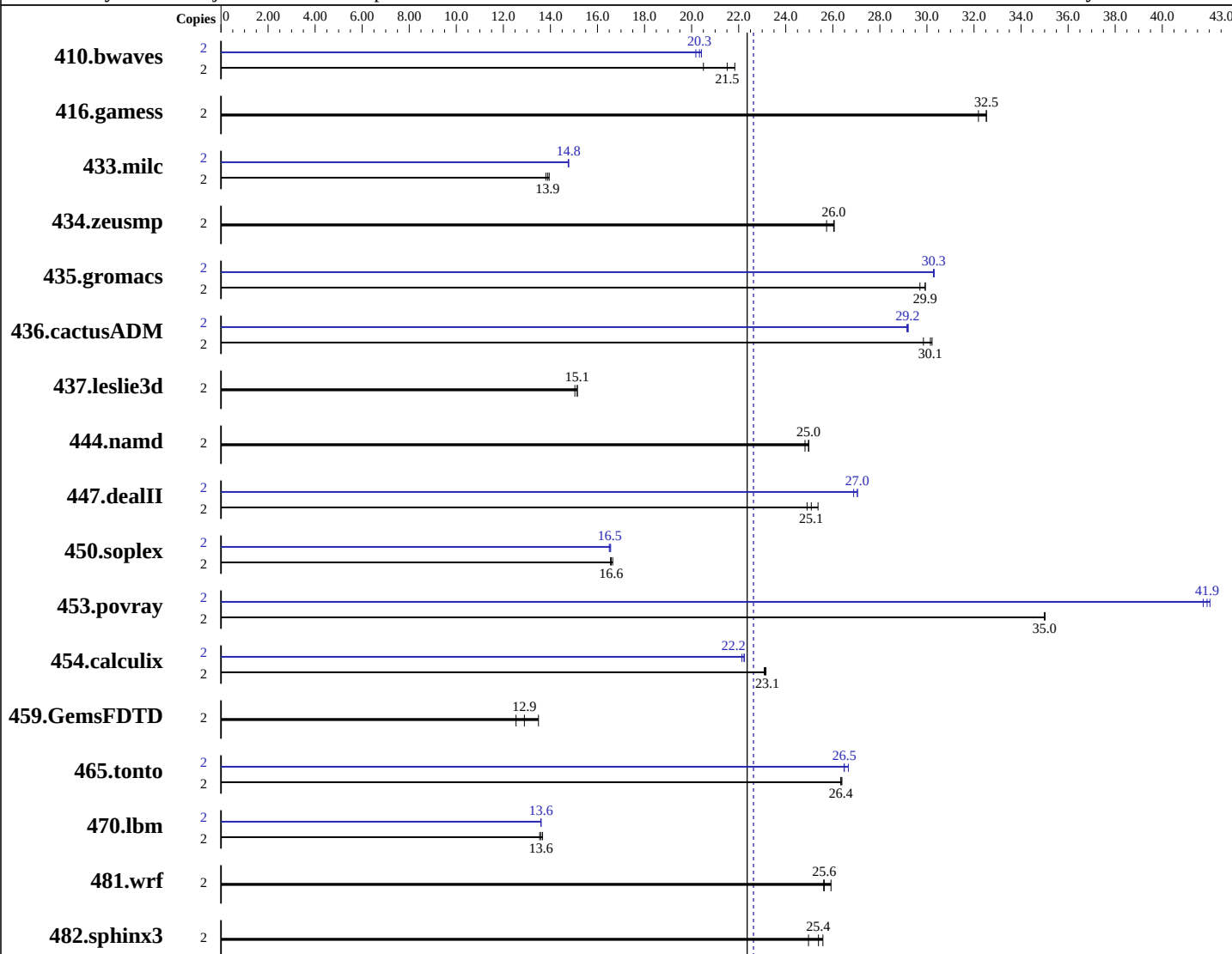
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Aug-2007

Hardware Availability: Jul-2007

Software Availability: Jun-2007



SPECfp_rate_base2006 = 22.4

SPECfp_rate2006 = 22.6

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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Hardware (Continued)

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

Software (Continued)

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

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.

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

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



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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 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

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

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Peak Optimization Flags (Continued)

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.20070904.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20070904.xml

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

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