



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

SPECfp®2006 = 15.6

CELSIUS H250, Intel Core 2 Duo T7700 processor

SPECfp_base2006 = 15.4

CPU2006 license: 22

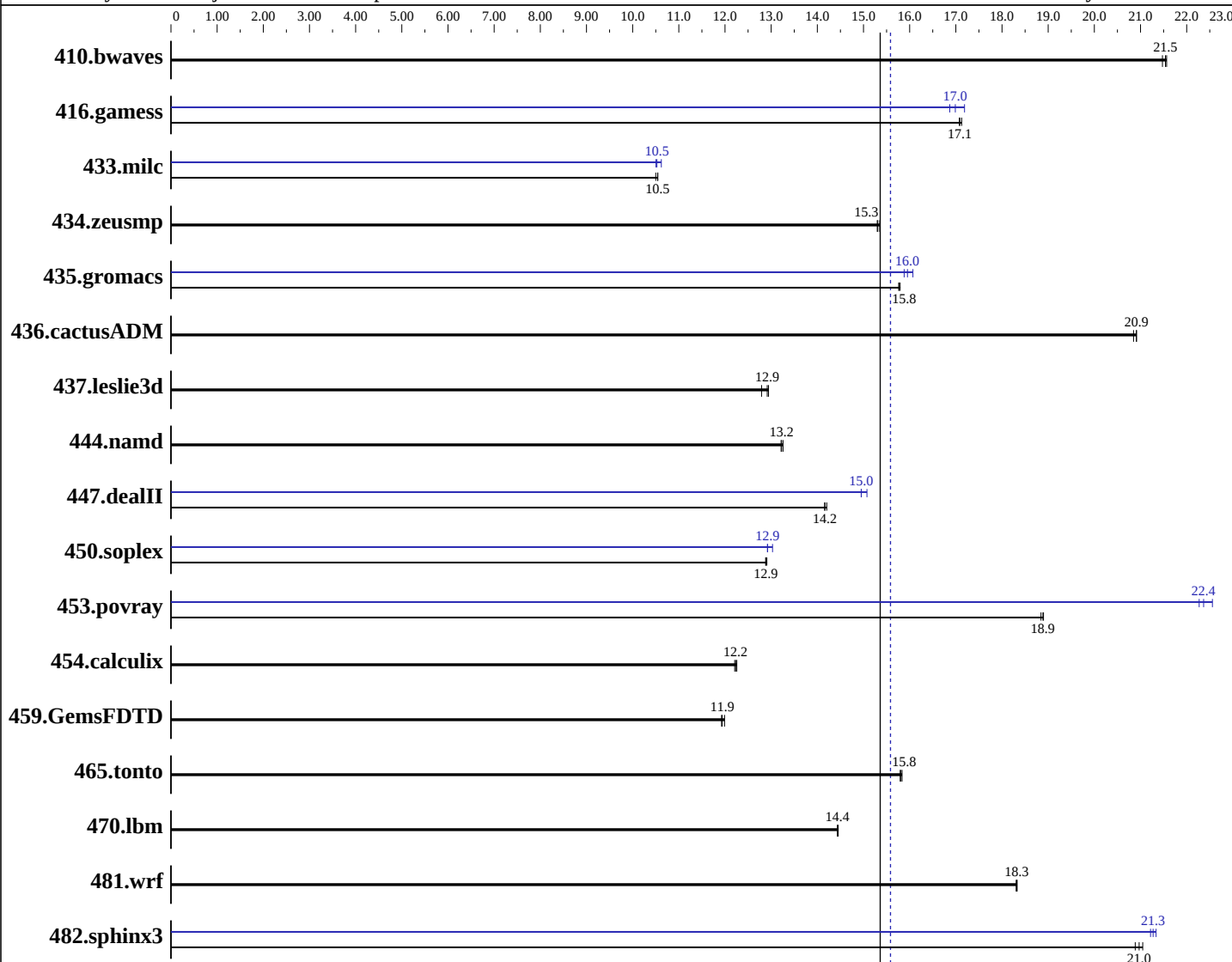
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Aug-2007

Hardware Availability: Jul-2007

Software Availability: Jun-2007



SPECfp_base2006 = 15.4

SPECfp2006 = 15.6

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: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	633	21.5	<u>631</u>	<u>21.5</u>	630	21.6	633	21.5	<u>631</u>	<u>21.5</u>	630	21.6
416.gamess	1147	17.1	<u>1146</u>	<u>17.1</u>	1143	17.1	1139	17.2	1161	16.9	<u>1153</u>	<u>17.0</u>
433.milc	874	10.5	870	10.5	<u>871</u>	<u>10.5</u>	864	10.6	<u>872</u>	<u>10.5</u>	874	10.5
434.zeusmp	595	15.3	<u>594</u>	<u>15.3</u>	593	15.4	595	15.3	<u>594</u>	<u>15.3</u>	593	15.4
435.gromacs	453	15.8	<u>453</u>	<u>15.8</u>	452	15.8	444	16.1	450	15.9	<u>448</u>	<u>16.0</u>
436.cactusADM	573	20.8	<u>571</u>	<u>20.9</u>	571	20.9	573	20.8	<u>571</u>	<u>20.9</u>	571	20.9
437.leslie3d	735	12.8	726	12.9	<u>728</u>	<u>12.9</u>	735	12.8	726	12.9	<u>728</u>	<u>12.9</u>
444.namd	<u>606</u>	<u>13.2</u>	607	13.2	605	13.3	<u>606</u>	<u>13.2</u>	607	13.2	605	13.3
447.dealII	<u>808</u>	<u>14.2</u>	808	14.2	805	14.2	759	15.1	<u>765</u>	<u>15.0</u>	765	15.0
450.soplex	646	12.9	647	12.9	<u>647</u>	<u>12.9</u>	640	13.0	646	12.9	<u>645</u>	<u>12.9</u>
453.povray	282	18.9	282	18.8	<u>282</u>	<u>18.9</u>	236	22.6	<u>238</u>	<u>22.4</u>	239	22.3
454.calculix	<u>674</u>	<u>12.2</u>	676	12.2	673	12.3	<u>674</u>	<u>12.2</u>	676	12.2	673	12.3
459.GemsFDTD	885	12.0	<u>889</u>	<u>11.9</u>	890	11.9	885	12.0	<u>889</u>	<u>11.9</u>	890	11.9
465.tonto	621	15.8	623	15.8	<u>622</u>	<u>15.8</u>	621	15.8	623	15.8	<u>622</u>	<u>15.8</u>
470.lbm	951	14.5	<u>952</u>	<u>14.4</u>	952	14.4	951	14.5	<u>952</u>	<u>14.4</u>	952	14.4
481.wrf	<u>610</u>	<u>18.3</u>	610	18.3	609	18.3	<u>610</u>	<u>18.3</u>	610	18.3	609	18.3
482.sphinx3	933	20.9	<u>929</u>	<u>21.0</u>	926	21.0	919	21.2	<u>916</u>	<u>21.3</u>	913	21.3

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 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

Base Optimization Flags

C benchmarks:
-fast -Qparallel -F950000000

C++ benchmarks:
-fast -Qparallel -Qcxx-features -F950000000

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Base Optimization Flags (Continued)

Fortran benchmarks:

-fast -Qparallel -F950000000

Benchmarks using both Fortran and C:

-fast -Qparallel -F950000000

Peak Optimization Flags

C benchmarks:

433.milc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000

470.lbm: basepeak = yes

482.sphinx3: Same as 433.milc

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: basepeak = yes

416.gamess: -fast -F950000000

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000

436.cactusADM: basepeak = yes

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Peak Optimization Flags (Continued)

454.calculix: basepeak = yes

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.

Tested with SPEC CPU2006 v1.0.
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