



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

SPECfp®_rate2006 = 40.8

CELSIUS M460, Intel Core 2 Quad Q6700 processor

SPECfp_rate_base2006 = 39.1

CPU2006 license: 22

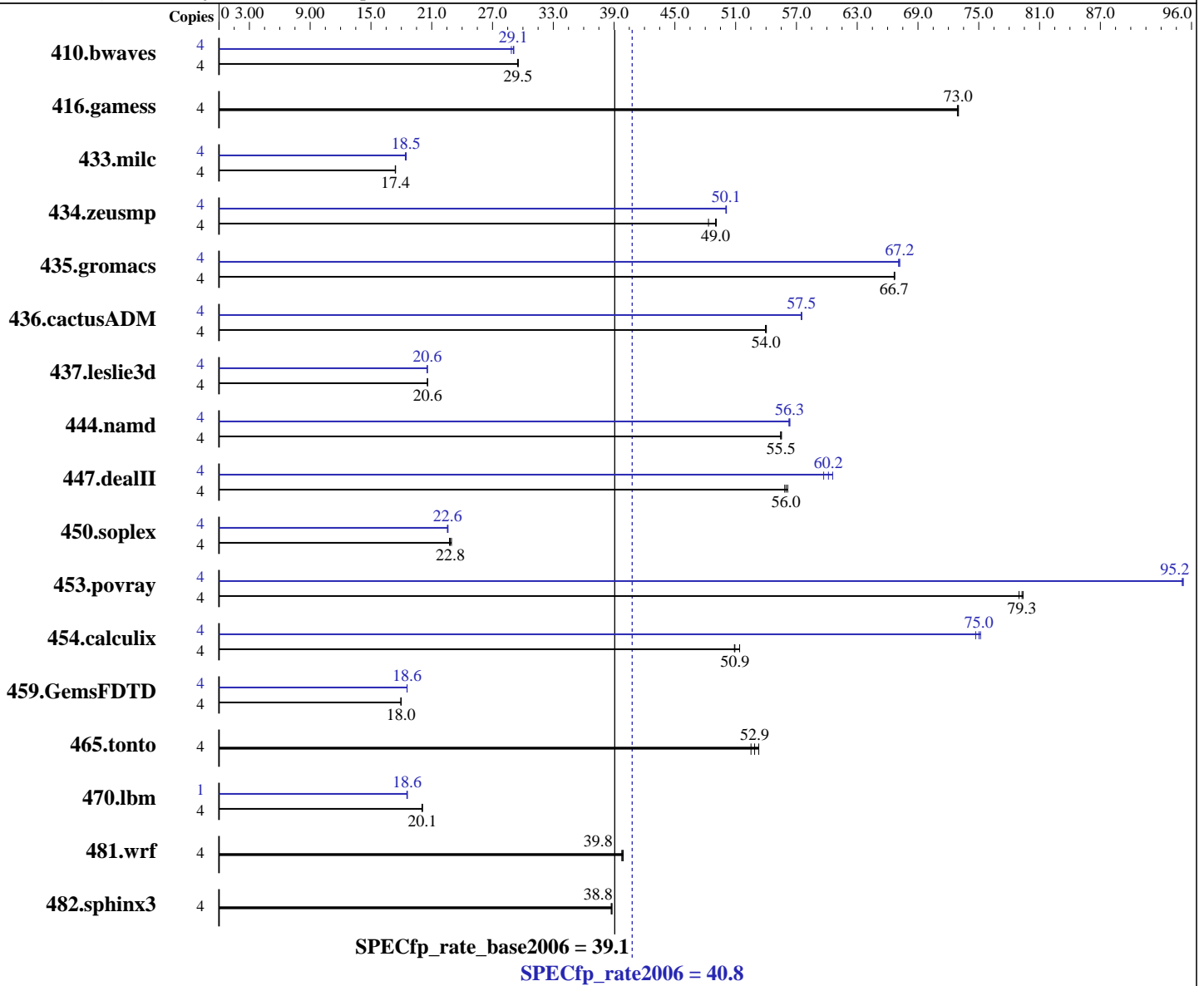
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Jan-2008

Hardware Availability: Nov-2007

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Quad Q6700
 CPU Characteristics:
 CPU MHz: 2667
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

Continued on next page

Software

Operating System: Microsoft Windows Vista Ultimate (x64)
 Compiler: Intel C++ and Fortran Compilers for Intel64, Version 10.1, Build 20070913
 Microsoft Visual Studio 2005 with SP1 (for libraries)
 Auto Parallel: No
 File System: NTFS

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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 II 7200 RPM
 Other Hardware: None

Software (Continued)

System State: Default
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: MicroQuill SmartHeap Library, Version 8.0 (64 bit)

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	4	1845	29.5	1840	29.5	<u>1841</u>	<u>29.5</u>	4	1884	28.9	1868	29.1	<u>1871</u>	<u>29.1</u>		
416.gamess	4	<u>1074</u>	<u>73.0</u>	1074	72.9	1073	73.0	4	<u>1074</u>	<u>73.0</u>	1074	72.9	1073	73.0		
433.milc	4	2107	17.4	2111	17.4	<u>2109</u>	<u>17.4</u>	4	1986	18.5	<u>1990</u>	<u>18.5</u>	1996	18.4		
434.zeusmp	4	753	48.3	<u>743</u>	<u>49.0</u>	741	49.1	4	727	50.1	<u>727</u>	<u>50.1</u>	728	50.0		
435.gromacs	4	429	66.6	428	66.7	<u>428</u>	<u>66.7</u>	4	425	67.2	<u>425</u>	<u>67.2</u>	426	67.1		
436.cactusADM	4	886	53.9	885	54.0	<u>885</u>	<u>54.0</u>	4	832	57.5	<u>831</u>	<u>57.5</u>	831	57.5		
437.leslie3d	4	<u>1827</u>	<u>20.6</u>	1827	20.6	1826	20.6	4	<u>1829</u>	<u>20.6</u>	1830	20.6	1828	20.6		
444.namd	4	578	55.5	<u>578</u>	<u>55.5</u>	579	55.4	4	569	56.3	570	56.3	<u>569</u>	<u>56.3</u>		
447.dealII	4	815	56.1	819	55.8	<u>817</u>	<u>56.0</u>	4	<u>761</u>	<u>60.2</u>	755	60.6	767	59.7		
450.soplex	4	1466	22.8	1454	23.0	<u>1461</u>	<u>22.8</u>	4	<u>1479</u>	<u>22.6</u>	1476	22.6	1479	22.6		
453.povray	4	<u>268</u>	<u>79.3</u>	268	79.4	269	79.0	4	<u>224</u>	<u>95.2</u>	224	95.1	224	95.2		
454.calculix	4	642	51.4	649	50.9	<u>648</u>	<u>50.9</u>	4	439	75.2	442	74.7	<u>440</u>	<u>75.0</u>		
459.GemsFDTD	4	2365	17.9	2358	18.0	<u>2363</u>	<u>18.0</u>	4	<u>2286</u>	<u>18.6</u>	2286	18.6	2287	18.6		
465.tonto	4	<u>744</u>	<u>52.9</u>	739	53.3	750	52.5	4	<u>744</u>	<u>52.9</u>	739	53.3	750	52.5		
470.lbm	4	<u>2737</u>	<u>20.1</u>	2736	20.1	2743	20.0	1	<u>740</u>	<u>18.6</u>	741	18.5	739	18.6		
481.wrf	4	1120	39.9	1124	39.8	<u>1122</u>	<u>39.8</u>	4	1120	39.9	1124	39.8	<u>1122</u>	<u>39.8</u>		
482.sphinx3	4	2010	38.8	<u>2010</u>	<u>38.8</u>	2014	38.7	4	2010	38.8	<u>2010</u>	<u>38.8</u>	2014	38.7		

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.

General Notes

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



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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

Fortran benchmarks:
-fast -F950000000

Benchmarks using both Fortran and C:
-fast -F950000000



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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

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- -Qunroll10 -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

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

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.03.xml



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

Tested with SPEC CPU2006 v1.0.
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