



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

SPECfp®2006 = 21.4

CELSIUS M460, Intel Core 2 Duo E8400

SPECfp_base2006 = 20.3

CPU2006 license: 22

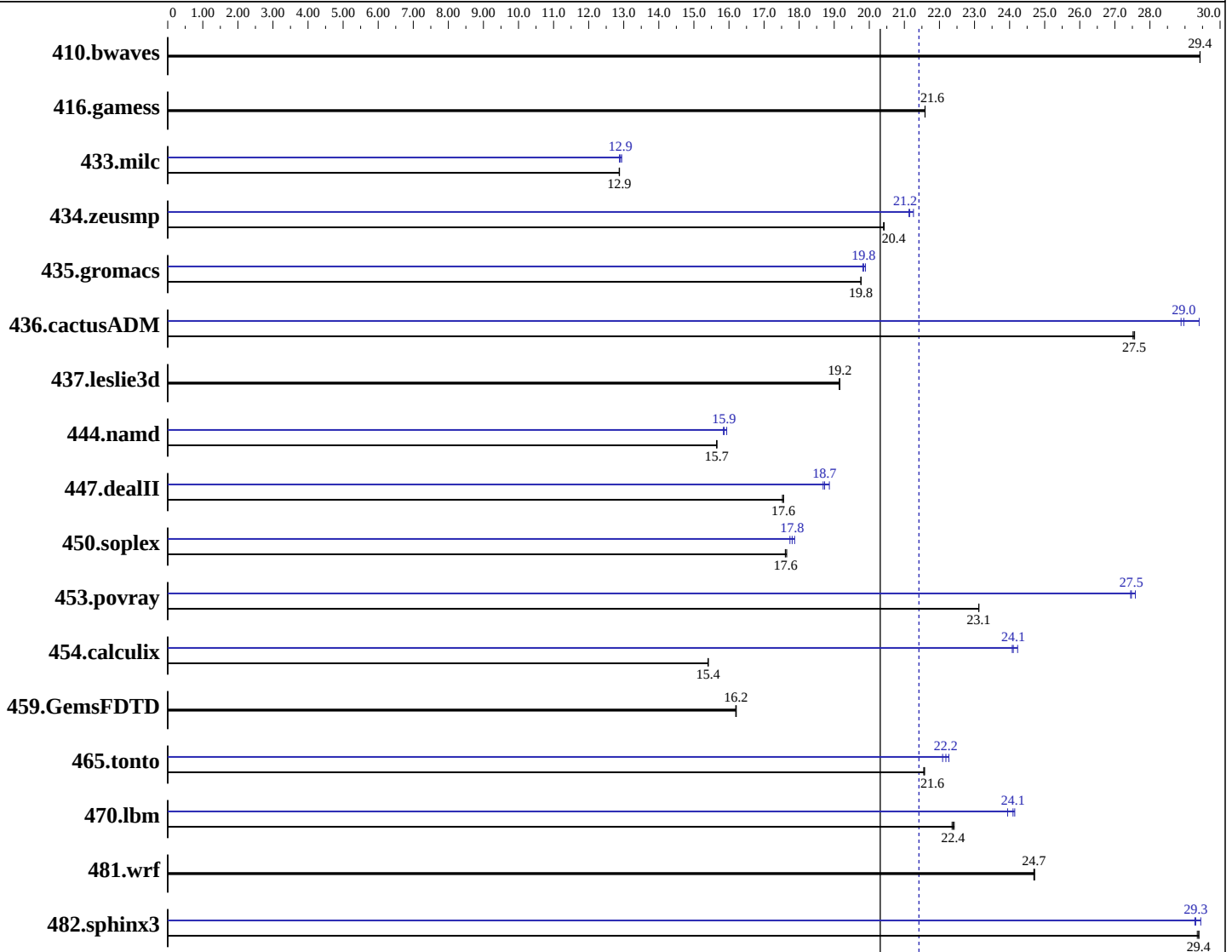
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Mar-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



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SPECfp2006 = 21.4

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: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: MicroQuill SmartHeap Library 8.0 (64 bit)

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	462	29.4	462	29.4	462	29.4	462	29.4	462	29.4	462	29.4
416.gamess	907	21.6	907	21.6	907	21.6	907	21.6	907	21.6	907	21.6
433.milc	713	12.9	713	12.9	713	12.9	709	12.9	711	12.9	713	12.9
434.zeusmp	446	20.4	446	20.4	446	20.4	428	21.3	430	21.2	431	21.1
435.gromacs	361	19.8	361	19.8	361	19.8	359	19.9	360	19.8	360	19.8
436.cactusADM	434	27.6	434	27.5	434	27.5	406	29.4	413	29.0	414	28.9
437.leslie3d	491	19.2	491	19.1	491	19.2	491	19.2	491	19.1	491	19.2
444.namd	512	15.7	512	15.7	512	15.7	503	15.9	506	15.8	506	15.9
447.dealII	653	17.5	652	17.6	652	17.6	607	18.9	612	18.7	611	18.7
450.soplex	474	17.6	473	17.6	473	17.6	467	17.9	470	17.7	469	17.8
453.povray	230	23.1	230	23.1	230	23.1	193	27.6	194	27.5	194	27.5
454.calculix	535	15.4	536	15.4	536	15.4	341	24.2	343	24.1	342	24.1
459.GemsFDTD	655	16.2	655	16.2	655	16.2	655	16.2	655	16.2	655	16.2
465.tonto	456	21.6	456	21.6	456	21.6	442	22.3	445	22.1	444	22.2
470.lbm	614	22.4	615	22.4	613	22.4	569	24.1	574	23.9	570	24.1
481.wrf	452	24.7	452	24.7	452	24.7	452	24.7	452	24.7	452	24.7
482.sphinx3	663	29.4	664	29.4	663	29.4	662	29.4	665	29.3	666	29.3

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 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 -Qparallel -F1000000000 libguide40.lib

C++ benchmarks:
-fast -Qparallel -Qcxx-features -F1000000000 libguide40.lib
shlw64M.lib -link -FORCE:MULTIPLE

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Base Optimization Flags (Continued)

Fortran benchmarks:

-fast -Qparallel -F1000000000 libguide40.lib

Benchmarks using both Fortran and C:

-fast -Qparallel -F1000000000 libguide40.lib

Peak Optimization Flags

C benchmarks:

433.milc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F1000000000
libguide40.lib

470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch -F1000000000
libguide40.lib

482.sphinx3: -fast -Qunroll2 -F1000000000 libguide40.lib

C++ benchmarks:

444.namd: -fast -Qcxx-features -Oa -F1000000000 libguide40.lib
sh1w64M.lib -link -FORCE:MULTIPLE

447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features
-F1000000000 libguide40.lib sh1w64M.lib
-link -FORCE:MULTIPLE

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: -O2 -Qunroll10 -QxT -Qscalar-rep- -Qprec-div- -F1000000000
libguide40.lib

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -fast -Qunroll14 -Qauto -F1000000000 libguide40.lib

Benchmarks using both Fortran and C:

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Peak Optimization Flags (Continued)

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F1000000000
libguide40.lib

436.cactusADM: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qparallel
-Qprefetch -Qunroll2 -F1000000000 libguide40.lib

454.calculix: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll-aggressive -F1000000000 libguide40.lib

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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