



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

SPECfp®2006 = 22.2

CELSIUS M460, Intel Core 2 Extreme QX9650

SPECfp_base2006 = 20.8

CPU2006 license: 22

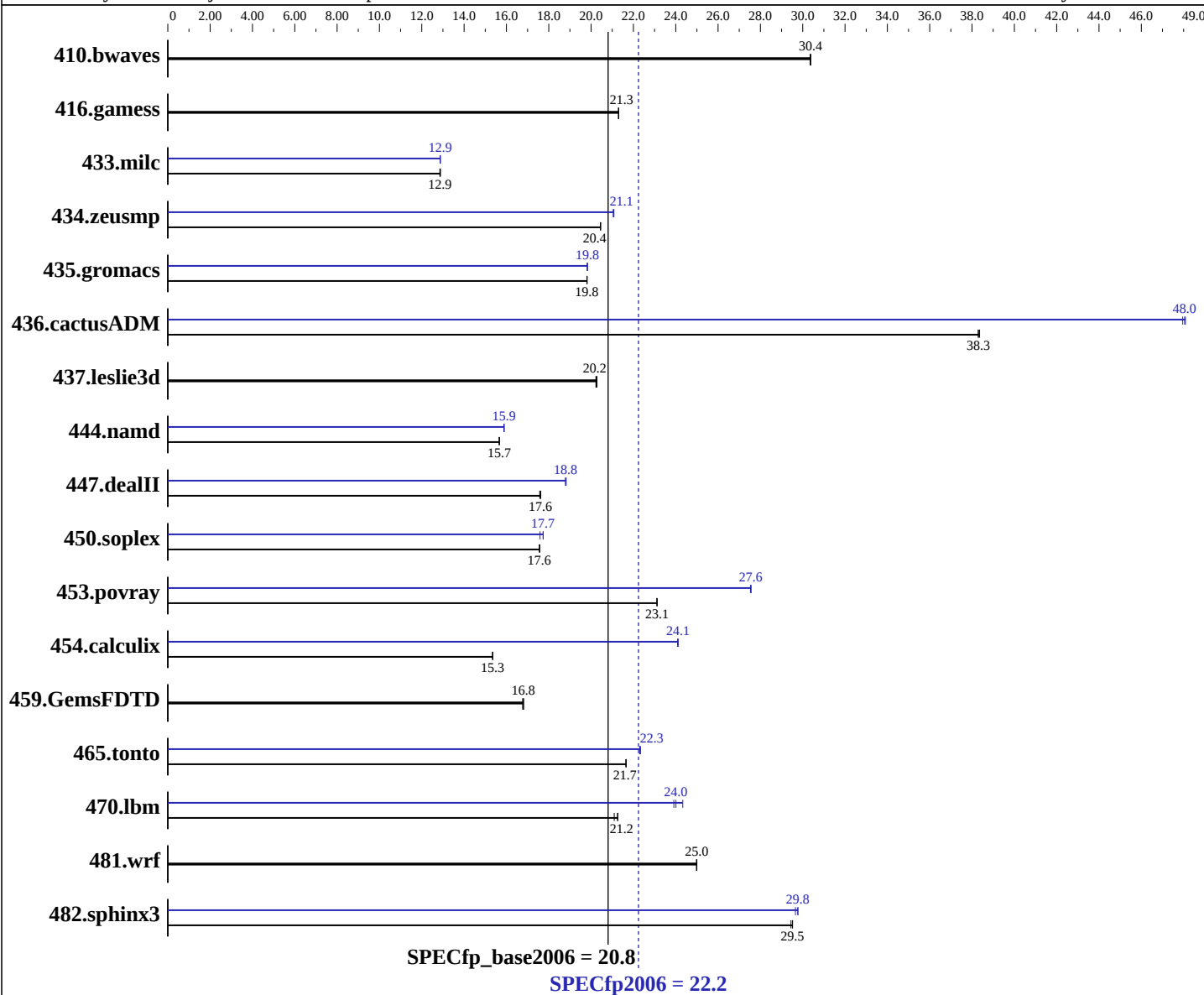
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Extreme QX9650
CPU Characteristics:
CPU MHz: 3000
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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

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Software

Operating System: Windows Vista Ultimate, 64 bit Version

Continued on next page



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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	448	30.4	448	30.4	447	30.4	448	30.4	448	30.4	447	30.4
416.gamess	919	21.3	919	21.3	919	21.3	919	21.3	919	21.3	919	21.3
433.milc	713	12.9	713	12.9	714	12.9	713	12.9	713	12.9	713	12.9
434.zeusmp	445	20.4	445	20.4	445	20.4	432	21.1	432	21.1	432	21.1
435.gromacs	361	19.8	360	19.8	360	19.8	360	19.8	360	19.8	360	19.8
436.cactusADM	312	38.4	312	38.3	312	38.3	249	48.0	249	48.1	249	48.0
437.leslie3d	464	20.2	465	20.2	464	20.3	464	20.2	465	20.2	464	20.3
444.namd	512	15.7	512	15.7	512	15.7	505	15.9	505	15.9	505	15.9
447.dealII	651	17.6	650	17.6	649	17.6	608	18.8	609	18.8	608	18.8
450.soplex	475	17.6	475	17.6	475	17.6	474	17.6	470	17.7	470	17.7
453.povray	230	23.1	230	23.1	230	23.1	193	27.6	193	27.6	193	27.5
454.calculix	537	15.4	537	15.3	538	15.3	342	24.1	342	24.1	342	24.1
459.GemsFDTD	633	16.8	631	16.8	631	16.8	633	16.8	631	16.8	631	16.8
465.tonto	454	21.7	455	21.6	454	21.7	441	22.3	441	22.3	441	22.3
470.lbm	651	21.1	647	21.2	646	21.3	575	23.9	572	24.0	565	24.3
481.wrf	447	25.0	447	25.0	447	25.0	447	25.0	447	25.0	447	25.0
482.sphinx3	660	29.5	662	29.4	660	29.5	657	29.7	655	29.8	655	29.8

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

Continued on next page



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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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