



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

SPECfp®2006 = 12.1

CELSIUS M440 Pentium 4 670

SPECfp_base2006 = 11.9

CPU2006 license: 22

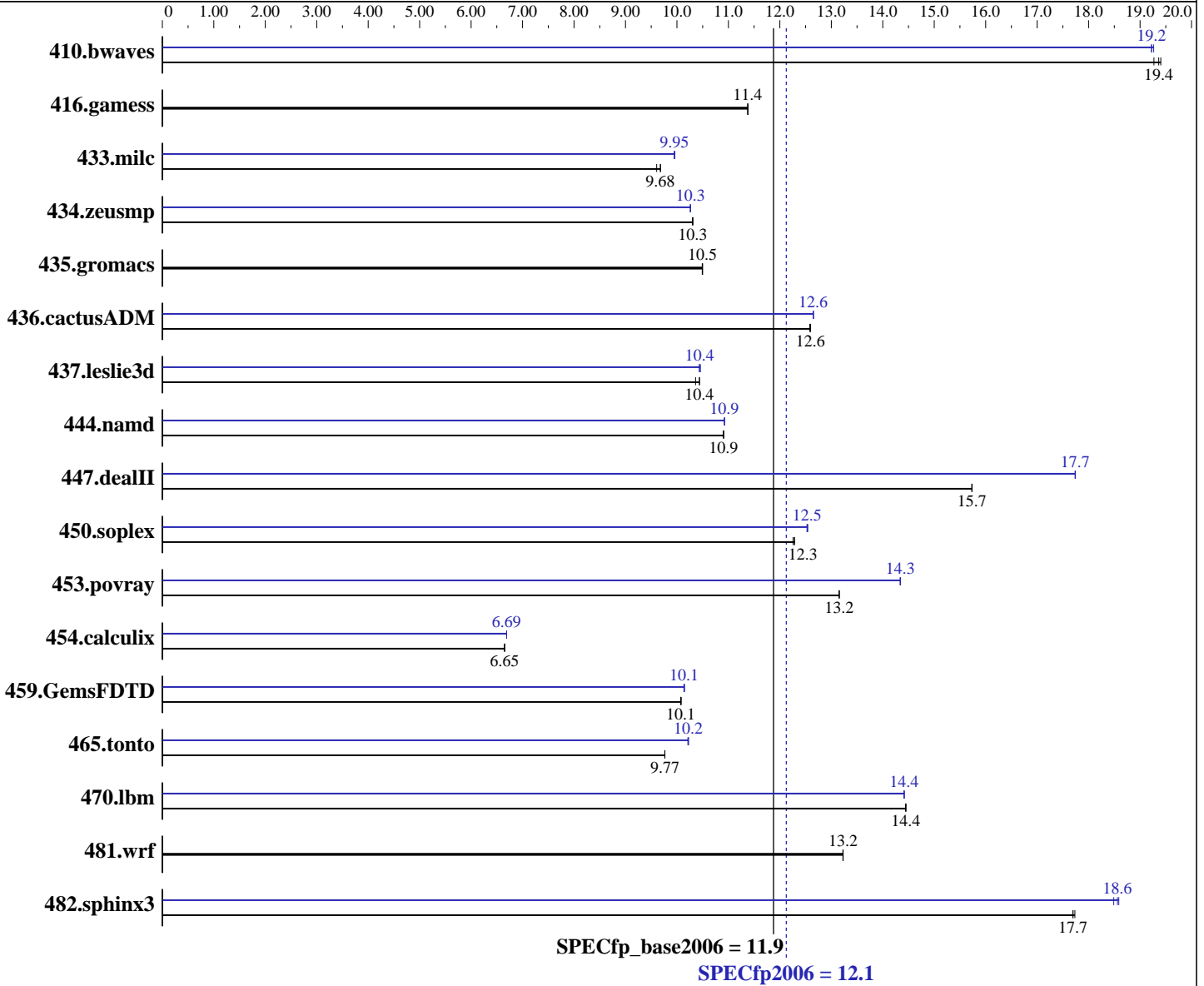
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Apr-2006

Hardware Availability: Sep-2005

Software Availability: May-2006



Hardware

CPU Name: Intel Pentium 4
 CPU Characteristics: Pentium 4 670
 CPU MHz: 3800
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per chip
 Secondary Cache: 2 MB I+D on chip per chip

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Software

Operating System: Windows XP Professional, Service Pack 2
 Compiler: Intel C++ Compiler for 32-bit applications (Version 9.1)
 Intel Fortran Compiler for 32-bit applications (Version 9.1)
 Microsoft Visual Studio .NET 2003 (libr. & linker)

Auto Parallel: No
 File System: NTFS
 System State: Default

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L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4 x 1 GB PC2-4200 2 rank DDR2 ECC modules)
 Disk Subsystem: Maxtor 6Y160M0 (Serial ATA 7200 RPM)
 Other Hardware: None

Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: SmartHeap Library, Version 8: shIW32M.lib

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	705	19.3	702	19.4	700	19.4	705	19.3	707	19.2	707	19.2
416.gamess	1721	11.4	1721	11.4	1721	11.4	1721	11.4	1721	11.4	1721	11.4
433.milc	956	9.61	948	9.68	949	9.68	922	9.96	923	9.95	922	9.95
434.zeusmp	883	10.3	883	10.3	883	10.3	887	10.3	887	10.3	887	10.3
435.gromacs	681	10.5	680	10.5	680	10.5	681	10.5	680	10.5	680	10.5
436.cactusADM	950	12.6	949	12.6	949	12.6	944	12.7	945	12.6	945	12.6
437.leslie3d	907	10.4	901	10.4	901	10.4	899	10.5	900	10.4	901	10.4
444.namd	735	10.9	735	10.9	735	10.9	734	10.9	734	10.9	734	10.9
447.dealII	727	15.7	727	15.7	727	15.7	645	17.7	645	17.7	645	17.7
450.soplex	680	12.3	679	12.3	679	12.3	665	12.5	666	12.5	666	12.5
453.povray	405	13.2	404	13.2	404	13.2	371	14.3	371	14.3	371	14.3
454.calculix	1241	6.65	1241	6.65	1241	6.65	1233	6.69	1233	6.69	1233	6.69
459.GemsFDTD	1052	10.1	1053	10.1	1053	10.1	1045	10.1	1047	10.1	1047	10.1
465.tonto	1008	9.77	1008	9.77	1008	9.76	962	10.2	963	10.2	964	10.2
470.lbm	951	14.4	951	14.5	951	14.4	953	14.4	953	14.4	953	14.4
481.wrf	845	13.2	844	13.2	844	13.2	845	13.2	844	13.2	844	13.2
482.sphinx3	1101	17.7	1099	17.7	1101	17.7	1054	18.5	1049	18.6	1050	18.6

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

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

Base Compiler Invocation

C benchmarks:
icl

C++ benchmarks:
icl -Qcxx-features

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Base Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl ifort

Base Portability Flags

436.cactusADM: -Qlowercase -assume:underscore

444.namd: -TP

447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
-DBOOST_NO_INTRINSIC_WCHAR_T

453.povray: -DSPEC_CPU_WINDOWS_ICL

454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase

481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:

-fast -F950000000

C++ benchmarks:

-fast -F950000000

Fortran benchmarks:

-fast -F950000000

Benchmarks using both Fortran and C:

-fast -F950000000

Base Other Flags

C benchmarks:

sh1W32M.lib

C++ benchmarks:

sh1W32M.lib

Fortran benchmarks:

sh1W32M.lib

Benchmarks using both Fortran and C:

sh1W32M.lib



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Peak Compiler Invocation

C benchmarks:

icl

C++ benchmarks (except as noted below):

icl

447.dealIII: icl -Qcxx-features

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl ifort

Peak Portability Flags

436.cactusADM: -Qlowercase -assume:underscore

444.namd: -TP

447.dealIII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
-DBOOST_NO_INTRINSIC_WCHAR_T

453.povray: -DSPEC_CPU_WINDOWS_ICL

454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase

481.wrf: -DSPEC_CPU_WINDOWS_ICL

Peak Optimization Flags

C benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast

C++ benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast

Fortran benchmarks:

410.bwaves: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000

416.gamess: basepeak = yes

434.zeusmp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast

437.leslie3d: Same as 434.zeusmp

459.GemsFDTD: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F3200000

465.tonto: Same as 434.zeusmp

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Peak Optimization Flags (Continued)

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F32000000

454.calculix: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast

481.wrf: basepeak = yes

Peak Other Flags

C benchmarks:

sh1W32M.lib

C++ benchmarks:

sh1W32M.lib

Fortran benchmarks:

sh1W32M.lib

Benchmarks using both Fortran and C:

sh1W32M.lib

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.00.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.00.xml

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