



SPEC[®] CFP2006 Result

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Fujitsu Siemens Computers

SPECfp[®]2006 = 16.6

CELSIUS R540, Intel Xeon processor X5355

SPECfp_base2006 = 16.1

CPU2006 license: 22

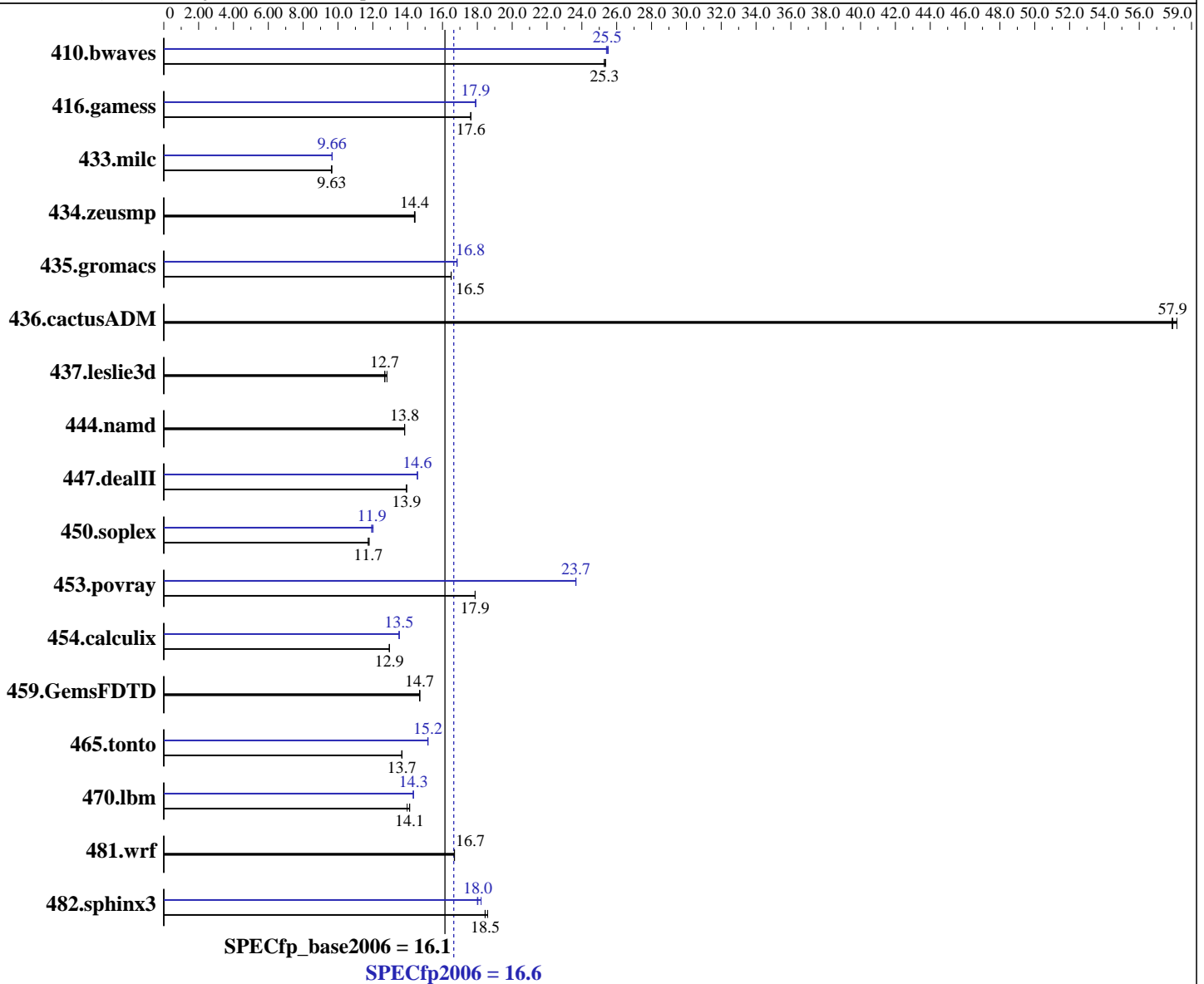
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: X5355
 CPU MHz: 2667
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 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

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Software

Operating System: Windows XP, 64 bit Edition
 Compiler: Intel C++ Compiler for EM64T-based applications
 - version 9.1, Build 20061104
 Intel Fortran Compiler for EM64T-based applications
 - version 9.1, Build 20061104
 Microsoft Visual Studio 2005 (for libraries)
 Auto Parallel: Yes
 File System: NTFS

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L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB DDR2 5300F, 2 rank, CL5-5-5,with ECC)
 Disk Subsystem: SATA II 7200 rpm
 Other Hardware: None

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	536	25.4	537	25.3	537	25.3	533	25.5	535	25.4	534	25.5
416.gamess	1110	17.6	1111	17.6	1111	17.6	1094	17.9	1094	17.9	1093	17.9
433.milc	952	9.65	954	9.63	953	9.63	951	9.66	950	9.66	949	9.67
434.zeusmp	631	14.4	632	14.4	633	14.4	631	14.4	632	14.4	633	14.4
435.gromacs	433	16.5	433	16.5	433	16.5	424	16.8	424	16.8	424	16.8
436.cactusADM	206	57.9	205	58.2	206	57.9	206	57.9	205	58.2	206	57.9
437.leslie3d	734	12.8	741	12.7	741	12.7	734	12.8	741	12.7	741	12.7
444.namd	580	13.8	580	13.8	580	13.8	580	13.8	580	13.8	580	13.8
447.dealII	821	13.9	821	13.9	821	13.9	786	14.6	786	14.6	786	14.6
450.soplex	710	11.7	707	11.8	710	11.7	694	12.0	698	11.9	698	11.9
453.povray	298	17.9	298	17.9	298	17.9	225	23.7	225	23.7	225	23.7
454.calculix	637	13.0	637	12.9	637	12.9	611	13.5	611	13.5	611	13.5
459.GemsFDTD	722	14.7	723	14.7	722	14.7	722	14.7	723	14.7	722	14.7
465.tonto	720	13.7	719	13.7	720	13.7	649	15.2	649	15.2	649	15.2
470.lbm	973	14.1	983	14.0	974	14.1	959	14.3	959	14.3	959	14.3
481.wrf	669	16.7	670	16.7	670	16.7	669	16.7	670	16.7	670	16.7
482.sphinx3	1048	18.6	1056	18.5	1057	18.4	1070	18.2	1083	18.0	1081	18.0

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, except:
 Snoop Filter Enabled
 Adjacent Cache Line Prefetch Enabled

General Notes

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



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Base Compiler Invocation

C benchmarks:
icl -Qvc8 -Qc99

C++ benchmarks:
icl -Qvc8

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qvc8 -Qc99 ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_P64
416.gamess: -DSPEC_CPU_P64
433.milc: -D_Complex= -DSPEC_CPU_P64
434.zeusmp: -DSPEC_CPU_P64
435.gromacs: -D_Complex= -DSPEC_CPU_P64
436.cactusADM: -D_Complex= -DSPEC_CPU_P64 -Qlowercase /assume:underscore
437.leslie3d: -DSPEC_CPU_P64
444.namd: -DSPEC_CPU_P64 /TP
447.dealII: -D_Complex= -DSPEC_CPU_P64 -DBOOST_NO_INTRINSIC_WCHAR_T
-DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
450.soplex: -DSPEC_CPU_P64
453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
454.calculix: -D_Complex= -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER
-Qlowercase
459.GemsFDTD: -DSPEC_CPU_P64
465.tonto: -DSPEC_CPU_P64
470.lbm: -D_Complex= -DSPEC_CPU_P64
481.wrf: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
482.sphinx3: -D_Complex= -DSPEC_CPU_P64

Base Optimization Flags

C benchmarks:
-fast -Qparallel -F950000000

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

Fortran benchmarks:
-fast -Qparallel -F950000000

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Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:

`-fast -Qparallel -F950000000`

Peak Compiler Invocation

C benchmarks:

`icl -Qvc8 -Qc99`

C++ benchmarks:

`icl -Qvc8`

Fortran benchmarks:

`ifort`

Benchmarks using both Fortran and C:

`icl -Qvc8 -Qc99 ifort`

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

`-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000`

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: `-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qparallel -F950000000`

416.gamess: `-fast -F950000000`

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Peak Optimization Flags (Continued)

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

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

436.cactusADM: basepeak = yes

454.calculix: Same as 435.gromacs

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.20090715.16.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.16.xml

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

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