



SPEC[®] CFP2006 Result

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Fujitsu Siemens Computers

PRIMERGY TX150 S4, Intel Pentium D 940 processor,
3.20 GHz

SPECfp[®]_rate2006 = 18.0

SPECfp_rate_base2006 = 17.7

CPU2006 license: 22

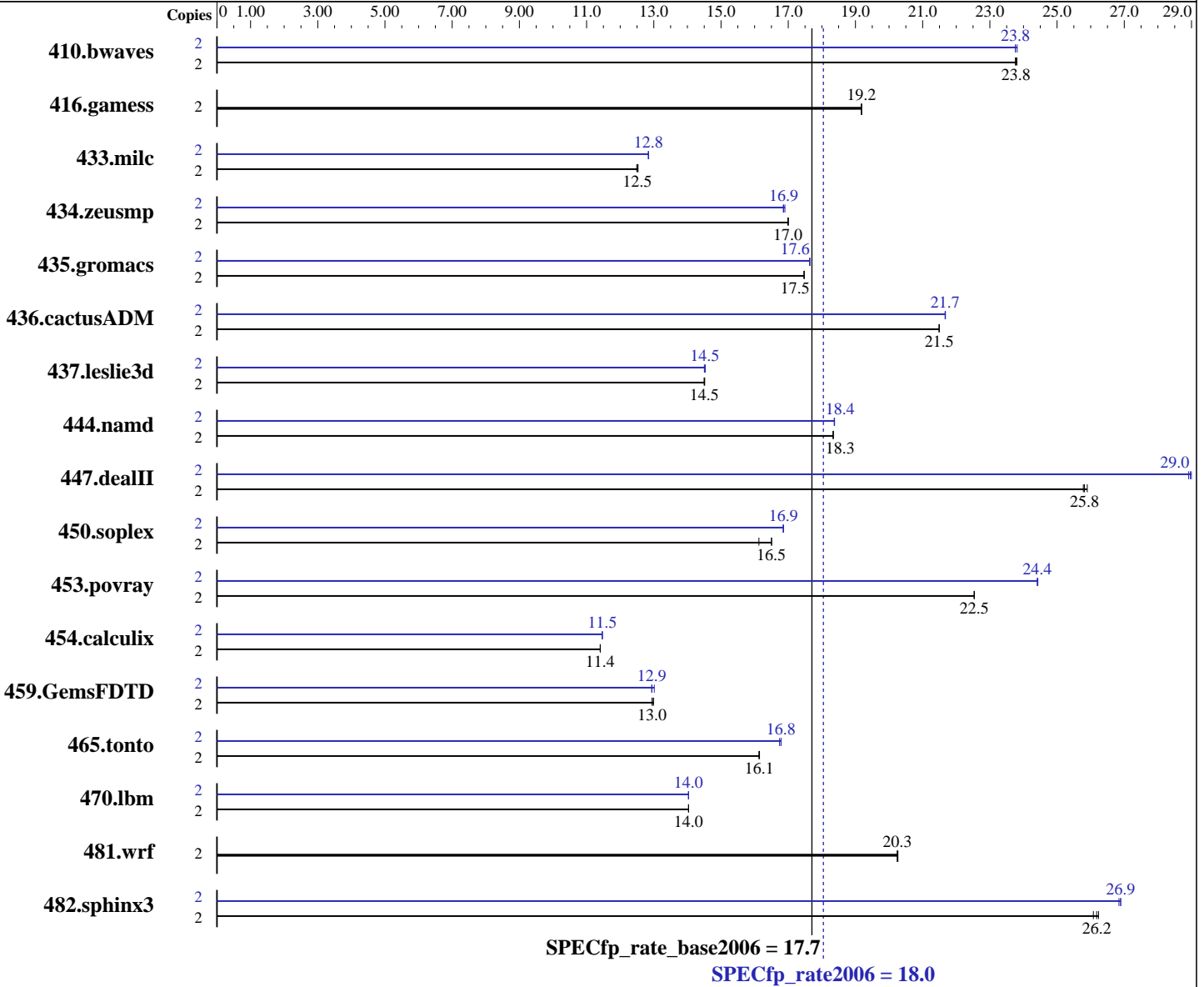
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Apr-2006

Hardware Availability: May-2006

Software Availability: May-2006



Hardware

CPU Name: Intel Pentium D
 CPU Characteristics: Pentium D 940
 CPU MHz: 3200
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per core
 Secondary Cache: 2 MB I+D on chip per core

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Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition + SP1 (32Bit)
 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: 8 GB (4x2 GB DDR2 PC2-4200E 2-Rank CAS 4-4-4)
Disk Subsystem: Fujitsu MAS3367NC (SCSI, 15krpm, 36GB)
Other Hardware: None

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

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1143	23.8	1142	23.8	1144	23.8	2	1144	23.8	1141	23.8	1144	23.8
416.gamess	2	2042	19.2	2042	19.2	2042	19.2	2	2042	19.2	2042	19.2	2042	19.2
433.milc	2	1465	12.5	1467	12.5	1470	12.5	2	1430	12.8	1430	12.8	1430	12.8
434.zeusmp	2	1071	17.0	1071	17.0	1070	17.0	2	1077	16.9	1080	16.9	1079	16.9
435.gromacs	2	817	17.5	817	17.5	817	17.5	2	810	17.6	809	17.6	809	17.6
436.cactusADM	2	1112	21.5	1112	21.5	1112	21.5	2	1103	21.7	1103	21.7	1102	21.7
437.leslie3d	2	1297	14.5	1295	14.5	1296	14.5	2	1294	14.5	1296	14.5	1295	14.5
444.namd	2	875	18.3	875	18.3	875	18.3	2	873	18.4	873	18.4	873	18.4
447.dealII	2	887	25.8	886	25.8	883	25.9	2	789	29.0	791	28.9	790	29.0
450.soplex	2	1011	16.5	1034	16.1	1010	16.5	2	990	16.8	989	16.9	989	16.9
453.povray	2	472	22.5	472	22.5	472	22.5	2	436	24.4	436	24.4	436	24.4
454.calculix	2	1446	11.4	1447	11.4	1447	11.4	2	1439	11.5	1439	11.5	1439	11.5
459.GemsFDTD	2	1633	13.0	1639	13.0	1638	13.0	2	1631	13.0	1640	12.9	1640	12.9
465.tonto	2	1219	16.1	1219	16.1	1220	16.1	2	1176	16.7	1172	16.8	1172	16.8
470.lbm	2	1958	14.0	1958	14.0	1958	14.0	2	1959	14.0	1958	14.0	1958	14.0
481.wrf	2	1104	20.2	1102	20.3	1103	20.3	2	1104	20.2	1102	20.3	1103	20.3
482.sphinx3	2	1495	26.1	1486	26.2	1489	26.2	2	1452	26.8	1450	26.9	1449	26.9

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

General Notes

The system bus runs at 800 MHz

For information about Fujitsu Siemens Computers in your country please see:
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Base Compiler Invocation

C benchmarks:
icl

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Base Compiler Invocation (Continued)

C++ benchmarks:

icl -Qcxx-features

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 shlw32M.lib

C++ benchmarks:

-fast -F950000000 shlw32M.lib

Fortran benchmarks:

-fast -F950000000 shlw32M.lib

Benchmarks using both Fortran and C:

-fast -F950000000 shlw32M.lib

Peak Compiler Invocation

C benchmarks:

icl

C++ benchmarks (except as noted below):

icl

447.dealII: icl -Qcxx-features

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Peak Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl ifort

Peak 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

Peak Optimization Flags

C benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast shlw32M.lib

C++ benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast shlw32M.lib

Fortran benchmarks:

410.bwaves: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000
shlw32M.lib

416.gamess: basepeak = yes

434.zeusmp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast shlw32M.lib

437.leslie3d: Same as 434.zeusmp

459.GemsFDTD: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F3200000
shlw32M.lib

465.tonto: Same as 434.zeusmp

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast shlw32M.lib

436.cactusADM: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F32000000
shlw32M.lib

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Peak Optimization Flags (Continued)

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.20090715.01.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.01.xml

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

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