SPEC® CFP2006 Result

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Fujitsu Siemens Computers

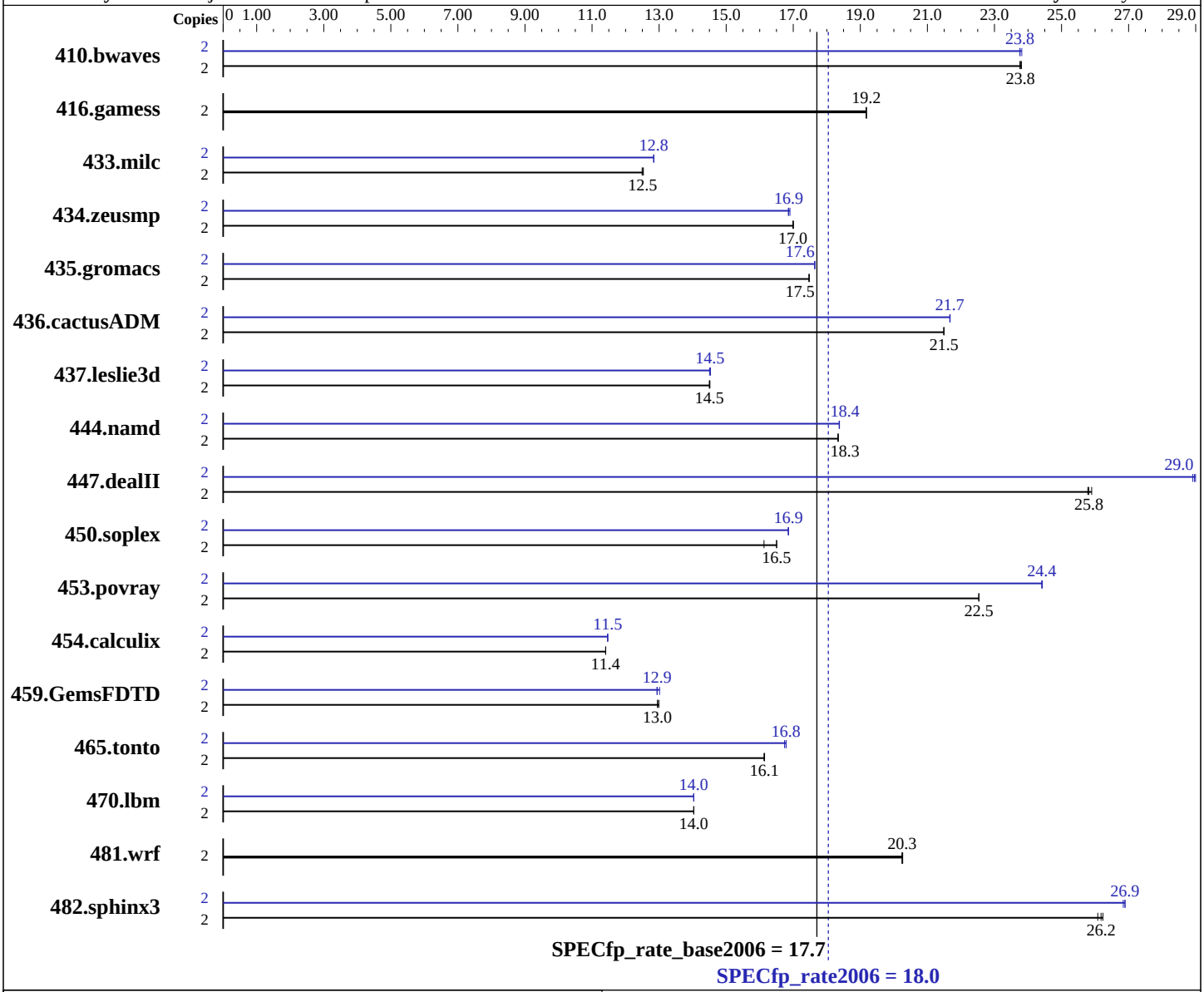
PRIMERGY TX150 S4, Intel Pentium D 940 processor, 3.20 GHz

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: shlW32M.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

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 The system bus runs at 800 MHz

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

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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