SPEC® CFP2006 Result

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Fujitsu Siemens Computers

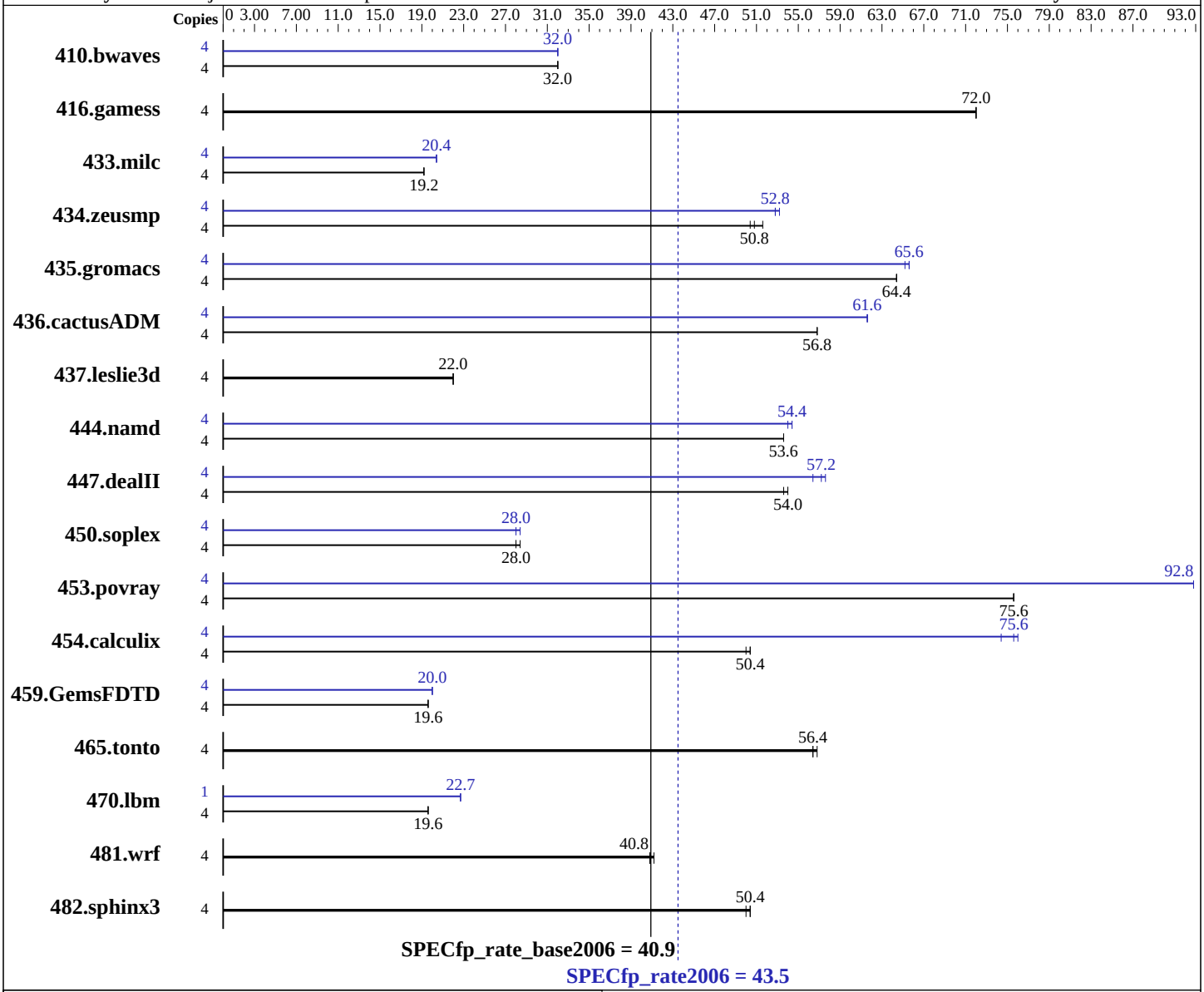
CELSIUS H270, Intel Core 2 Extreme QX9300 processor

SPECfp®_rate2006 = 43.5

SPECfp_rate_base2006 = 40.9

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Nov-2008
Hardware Availability: Dec-2008
Software Availability: Feb-2008



Hardware

CPU Name:	Intel Core 2 Extreme QX9300
CPU Characteristics:	
CPU MHz:	2530
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

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L3 Cache: None
Other Cache: None
Memory: 8 GB (2x4 GB DDR3 1066 MHz SDRAM)
Disk Subsystem: 1 x 80 GB SATA 7200 RPM
Other Hardware: None

Compiler: Intel C++ Compiler for applications running on Intel 64, Version 10.1, Build 20080212
Intel Visual Fortran Compiler for applications running on Intel 64, Version 10.1, Build 20080212
Microsoft Visual Studio 2005 with SP1 (for libraries)
Auto Parallel: No
File System: NTFS
System State: Default
Base Pointers: 64-bit
Peak Pointers: 64-bit
Other Software: SmartHeap Library Version 8.0 (64 bit) from http://www.microquill.com/

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1699	32.0	**1701**	**32.0**	1704	32.0	4	1697	32.0	1704	32.0	**1699**	**32.0**
416.gamess	4	1091	72.0	1090	72.0	**1091**	**72.0**	4	1091	72.0	1090	72.0	**1091**	**72.0**
433.milc	4	1912	19.2	1923	19.2	**1921**	**19.2**	4	1804	20.4	1807	20.4	**1806**	**20.4**
434.zeusmp	4	704	51.6	725	50.4	**714**	**50.8**	4	685	53.2	**687**	**52.8**	688	52.8
435.gromacs	4	444	64.4	444	64.4	**444**	**64.4**	4	437	65.2	436	65.6	**436**	**65.6**
436.cactusADM	4	842	56.8	844	56.8	**844**	**56.8**	4	**776**	**61.6**	779	61.6	775	61.6
437.leslie3d	4	1719	22.0	1724	22.0	**1722**	**22.0**	4	1719	22.0	1724	22.0	**1722**	**22.0**
444.namd	4	**600**	**53.6**	600	53.6	600	53.6	4	593	54.0	**591**	**54.4**	590	54.4
447.dealII	4	846	54.0	**849**	**54.0**	854	53.6	4	813	56.4	796	57.6	**803**	**57.2**
450.soplex	4	1182	28.4	1187	28.0	**1184**	**28.0**	4	1198	28.0	**1186**	**28.0**	1183	28.4
453.povray	4	**282**	**75.6**	282	75.6	282	75.6	4	**229**	**92.8**	229	92.8	229	92.8
454.calculix	4	657	50.4	**657**	**50.4**	659	50.0	4	**437**	**75.6**	435	76.0	443	74.4
459.GemsFDTD	4	2169	19.6	2165	19.6	**2169**	**19.6**	4	2106	20.0	2110	20.0	**2109**	**20.0**
465.tonto	4	698	56.4	**698**	**56.4**	693	56.8	4	698	56.4	**698**	**56.4**	693	56.8
470.lbm	4	2788	19.6	2786	19.6	**2786**	**19.6**	1	605	22.7	**606**	**22.7**	606	22.7
481.wrf	4	**1094**	**40.8**	1094	40.8	1089	41.2	4	**1094**	**40.8**	1094	40.8	1089	41.2
482.sphinx3	4	1549	50.4	1555	50.0	**1553**	**50.4**	4	1549	50.4	1555	50.0	**1553**	**50.4**

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

Operating System Notes

```
Screen Saver was disabled
Power scheme was set to "Always On"
"Turn off monitor" option within this scheme was set to "Never".
```

Platform Notes

```
BIOS default settings have been used.
```

General Notes

```
For information about Fujitsu Siemens Computers please see:
http://www.fujitsu-siemens.com
```

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: -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 -F950000000 shlW64M.lib
```

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Base Optimization Flags (Continued)

C++ benchmarks:
`-fast -Qcxx-features -F950000000 shlW64M.lib`

Fortran benchmarks:
`-fast -F950000000`

Benchmarks using both Fortran and C:
`-fast -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:

433.milc: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -F950000000`

470.lbm: `-fast -Qunroll2 -Qscalar-rep- -Qprefetch -F950000000`

482.sphinx3: `basepeak = yes`

C++ benchmarks:

444.namd: `-fast -Oa -F950000000 shlW64M.lib`

447.dealII: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qcxx-features -F950000000`

Continued on next page

Peak Optimization Flags (Continued)

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 -F950000000

416.gamess: basepeak = yes

434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll0 -Qscalar-rep- -F950000000

437.leslie3d: basepeak = yes

459.GemsFDTD: -fast -Qunroll2 -Ob0 -Qprefetch -F950000000

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

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

436.cactusADM: -fast -Qunroll2 -Qprefetch -F950000000

454.calculix: -fast -Qunroll-aggressive -F950000000

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.20090713.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.00.xml

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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