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

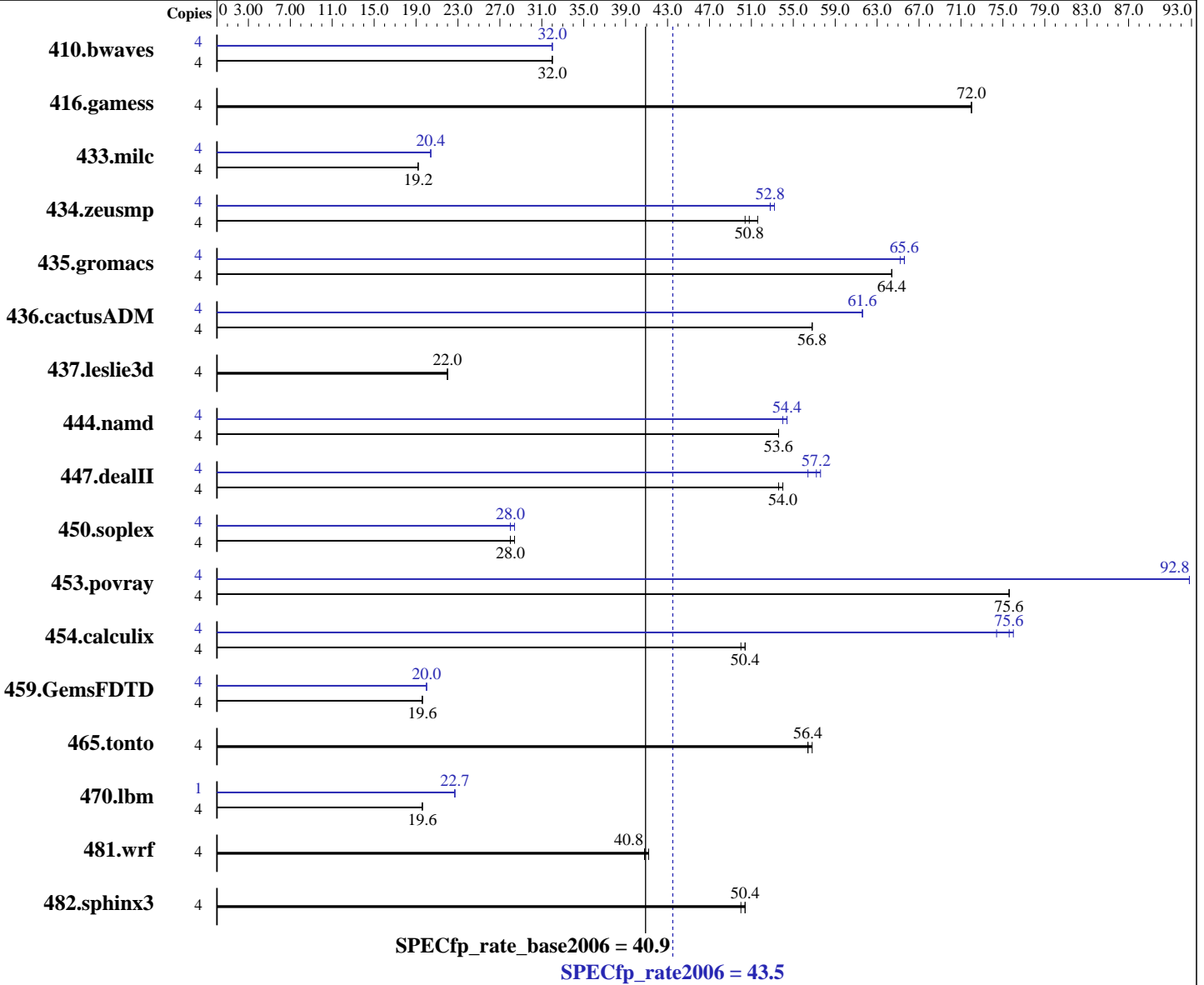**CPU2006 license:** 22　　　　　　　　　　　　　　　　　　　**Test date:** Nov-2008
Test sponsor: Fujitsu Siemens Computers　　　　　　**Hardware Availability:** Dec-2008
Tested by: Fujitsu Siemens Computers　　　　　　　　**Software Availability:** Feb-2008

Benchmark	Copies	Result
410.bwaves	4 / 4	32.0 / 32.0
416.gamess	4	72.0
433.milc	4 / 4	20.4 / 19.2
434.zeusmp	4 / 4	52.8 / 50.8
435.gromacs	4 / 4	65.6 / 64.4
436.cactusADM	4 / 4	61.6 / 56.8
437.leslie3d	4	22.0
444.namd	4 / 4	54.4 / 53.6
447.dealII	4 / 4	57.2 / 54.0
450.soplex	4 / 4	28.0 / 28.0
453.povray	4 / 4	92.8 / 75.6
454.calculix	4 / 4	75.6 / 50.4
459.GemsFDTD	4 / 4	20.0 / 19.6
465.tonto	4	56.4
470.lbm	1 / 4	22.7 / 19.6
481.wrf	4	40.8
482.sphinx3	4	50.4

SPECfp_rate_base2006 = 40.9

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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	Compiler: Intel C++ Compiler
Other Cache: None	for applications running on Intel 64,
Memory: 8 GB (2x4 GB DDR3 1066 MHz SDRAM)	Version 10.1, Build 20080212
Disk Subsystem: 1 x 80 GB SATA 7200 RPM	Intel Visual Fortran Compiler
Other Hardware: None	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	Copies	Base Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Peak 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".
```

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Test date: Nov-2008
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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`

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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

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

Tested with SPEC CPU2006 v1.1.
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