SPEC® CFP2006 Result

Fujitsu Siemens Computers

CELSIUS M460, Intel Core 2 Quad Q6700 processor

SPECfp®_rate2006 = 40.8

SPECfp_rate_base2006 = 39.1
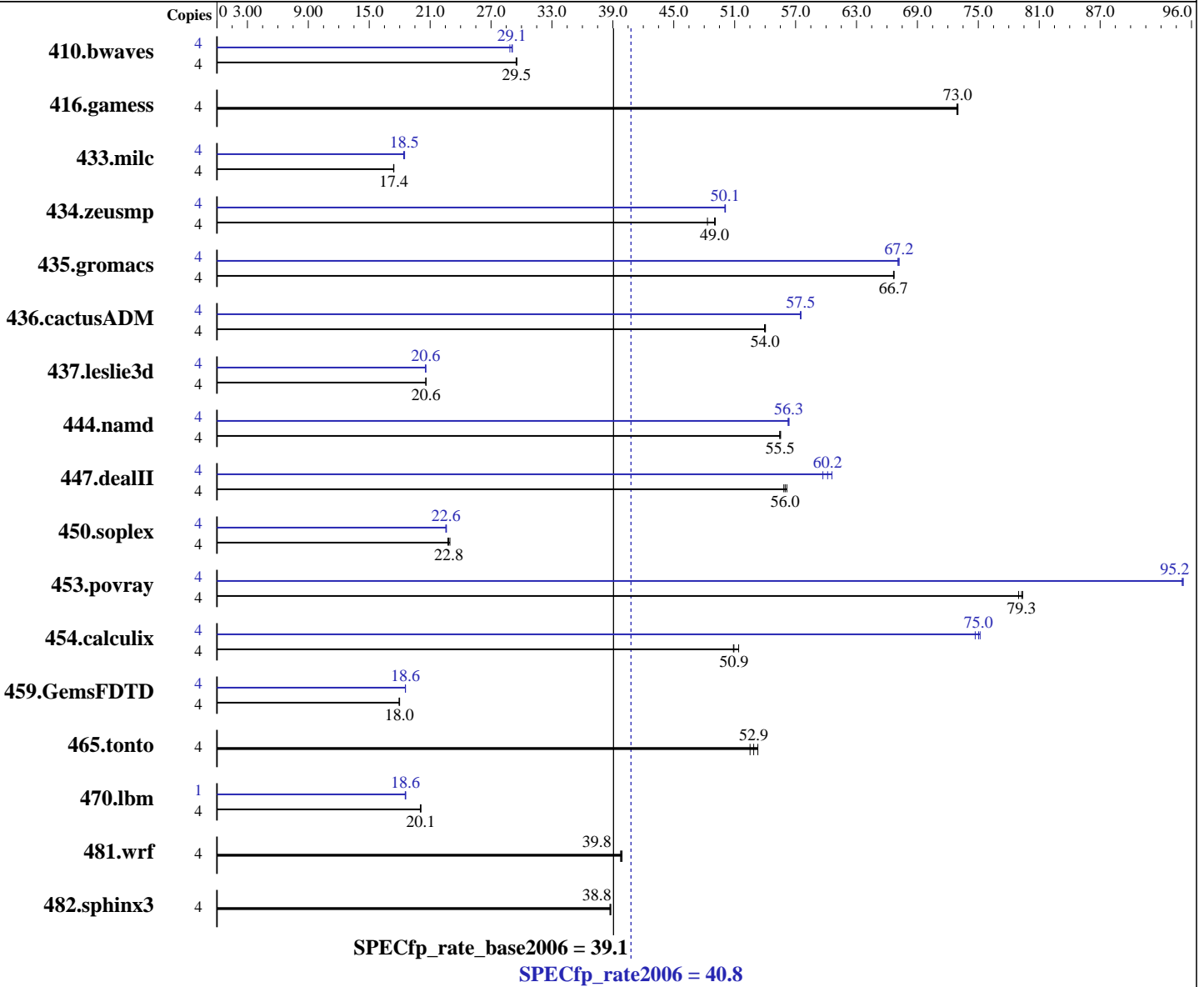
CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Jan-2008

Hardware Availability: Nov-2007

Software Availability: Nov-2007

Benchmark	Copies	Result
410.bwaves	4	29.1
410.bwaves	4	29.5
416.gamess	4	73.0
433.milc	4	18.5
433.milc	4	17.4
434.zeusmp	4	50.1
434.zeusmp	4	49.0
435.gromacs	4	67.2
435.gromacs	4	66.7
436.cactusADM	4	57.5
436.cactusADM	4	54.0
437.leslie3d	4	20.6
437.leslie3d	4	20.6
444.namd	4	56.3
444.namd	4	55.5
447.dealII	4	60.2
447.dealII	4	56.0
450.soplex	4	22.6
450.soplex	4	22.8
453.povray	4	95.2
453.povray	4	79.3
454.calculix	4	75.0
454.calculix	4	50.9
459.GemsFDTD	4	18.6
459.GemsFDTD	4	18.0
465.tonto	4	52.9
470.lbm	1	18.6
470.lbm	4	20.1
481.wrf	4	39.8
482.sphinx3	4	38.8

SPECfp_rate_base2006 = 39.1

SPECfp_rate2006 = 40.8

Hardware

CPU Name:	Intel Core 2 Quad Q6700
CPU Characteristics:	
CPU MHz:	2667
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:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

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Software

Operating System:	Microsoft Windows Vista Ultimate (x64)
Compiler:	Intel C++ and Fortran Compilers for Intel64, Version 10.1, Build 20070913 Microsoft Visual Studio 2005 with SP1 (for libraries)
Auto Parallel:	No
File System:	NTFS

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L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1 GB PC2-6400 CL6 SDRAM)
Disk Subsystem:	1 x 400 GB SATA II 7200 RPM
Other Hardware:	None

System State:	Default
Base Pointers:	64-bit
Peak Pointers:	64-bit
Other Software:	MicroQuill SmartHeap Library, Version 8.0 (64 bit)

Results Table

Benchmark	Base Copies	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Peak Copies	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio
410.bwaves	4	1845	29.5	1840	29.5	**1841**	**29.5**	4	1884	28.9	1868	29.1	**1871**	**29.1**
416.gamess	4	**1074**	**73.0**	1074	72.9	1073	73.0	4	**1074**	**73.0**	1074	72.9	1073	73.0
433.milc	4	2107	17.4	2111	17.4	**2109**	**17.4**	4	1986	18.5	**1990**	**18.5**	1996	18.4
434.zeusmp	4	753	48.3	**743**	**49.0**	741	49.1	4	727	50.1	**727**	**50.1**	728	50.0
435.gromacs	4	429	66.6	428	66.7	**428**	**66.7**	4	425	67.2	**425**	**67.2**	426	67.1
436.cactusADM	4	886	53.9	885	54.0	**885**	**54.0**	4	832	57.5	**831**	**57.5**	831	57.5
437.leslie3d	4	**1827**	**20.6**	1827	20.6	1826	20.6	4	**1829**	**20.6**	1830	20.6	1828	20.6
444.namd	4	578	55.5	**578**	**55.5**	579	55.4	4	569	56.3	570	56.3	**569**	**56.3**
447.dealII	4	815	56.1	819	55.8	**817**	**56.0**	4	**761**	**60.2**	755	60.6	767	59.7
450.soplex	4	1466	22.8	1454	23.0	**1461**	**22.8**	4	**1479**	**22.6**	1476	22.6	1479	22.6
453.povray	4	**268**	**79.3**	268	79.4	269	79.0	4	**224**	**95.2**	224	95.1	224	95.2
454.calculix	4	642	51.4	649	50.9	**648**	**50.9**	4	439	75.2	442	74.7	**440**	**75.0**
459.GemsFDTD	4	2365	17.9	2358	18.0	**2363**	**18.0**	4	**2286**	**18.6**	2286	18.6	2287	18.6
465.tonto	4	**744**	**52.9**	739	53.3	750	52.5	4	**744**	**52.9**	739	53.3	750	52.5
470.lbm	4	**2737**	**20.1**	2736	20.1	2743	20.0	1	**740**	**18.6**	741	18.5	739	18.6
481.wrf	4	1120	39.9	1124	39.8	**1122**	**39.8**	4	1120	39.9	1124	39.8	**1122**	**39.8**
482.sphinx3	4	2010	38.8	**2010**	**38.8**	2014	38.7	4	2010	38.8	**2010**	**38.8**	2014	38.7

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.

General Notes

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

Base Compiler Invocation

    C benchmarks:
        icl -Qvc8 -Qc99

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CPU2006 license: 22		**Test date:**	Jan-2008
Test sponsor:	Fujitsu Siemens Computers	**Hardware Availability:**	Nov-2007
Tested by:	Fujitsu Siemens Computers	**Software Availability:**	Nov-2007

Base Compiler Invocation (Continued)

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
```

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

Fortran benchmarks:
```
-fast -F950000000
```

Benchmarks using both Fortran and C:
```
-fast -F950000000
```

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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

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

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Peak Optimization Flags (Continued)

437.leslie3d: Same as 410.bwaves

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.20090713.03.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.03.xml`

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

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