SPEC® CFP2006 Result
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Fujitsu Siemens Computers

$SPECfp^{®}\_rate2006 =$ 45.8

CELSIUS M460, Intel Core 2 Quad Q9550

$SPECfp\_rate\_base2006 =$ 43.3

Benchmark	Copies	Result
410.bwaves	4	30.4
410.bwaves	4	30.9
416.gamess	4	80.7
433.milc	4	19.3
433.milc	4	18.2
434.zeusmp	4	57.7
434.zeusmp	4	55.4
435.gromacs	4	74.0
435.gromacs	4	74.0
436.cactusADM	4	62.2
436.cactusADM	4	58.7
437.leslie3d	4	22.3
437.leslie3d	4	22.3
444.namd	4	59.7
444.namd	4	58.4
447.dealII	4	64.5
447.dealII	4	61.1
450.soplex	4	26.1
450.soplex	4	26.3
453.povray	4	104
453.povray	4	85.4
454.calculix	4	85.0
454.calculix	4	56.7
459.GemsFDTD	4	20.7
459.GemsFDTD	4	19.9
465.tonto	4	66.1
470.lbm	1	24.1
470.lbm	4	21.1
481.wrf	4	43.1
482.sphinx3	4	49.1

SPECfp_rate_base2006 = 43.3
SPECfp_rate2006 = 45.8

Hardware

CPU Name:	Intel Core 2 Quad Q9550
CPU Characteristics:	
CPU MHz:	2833
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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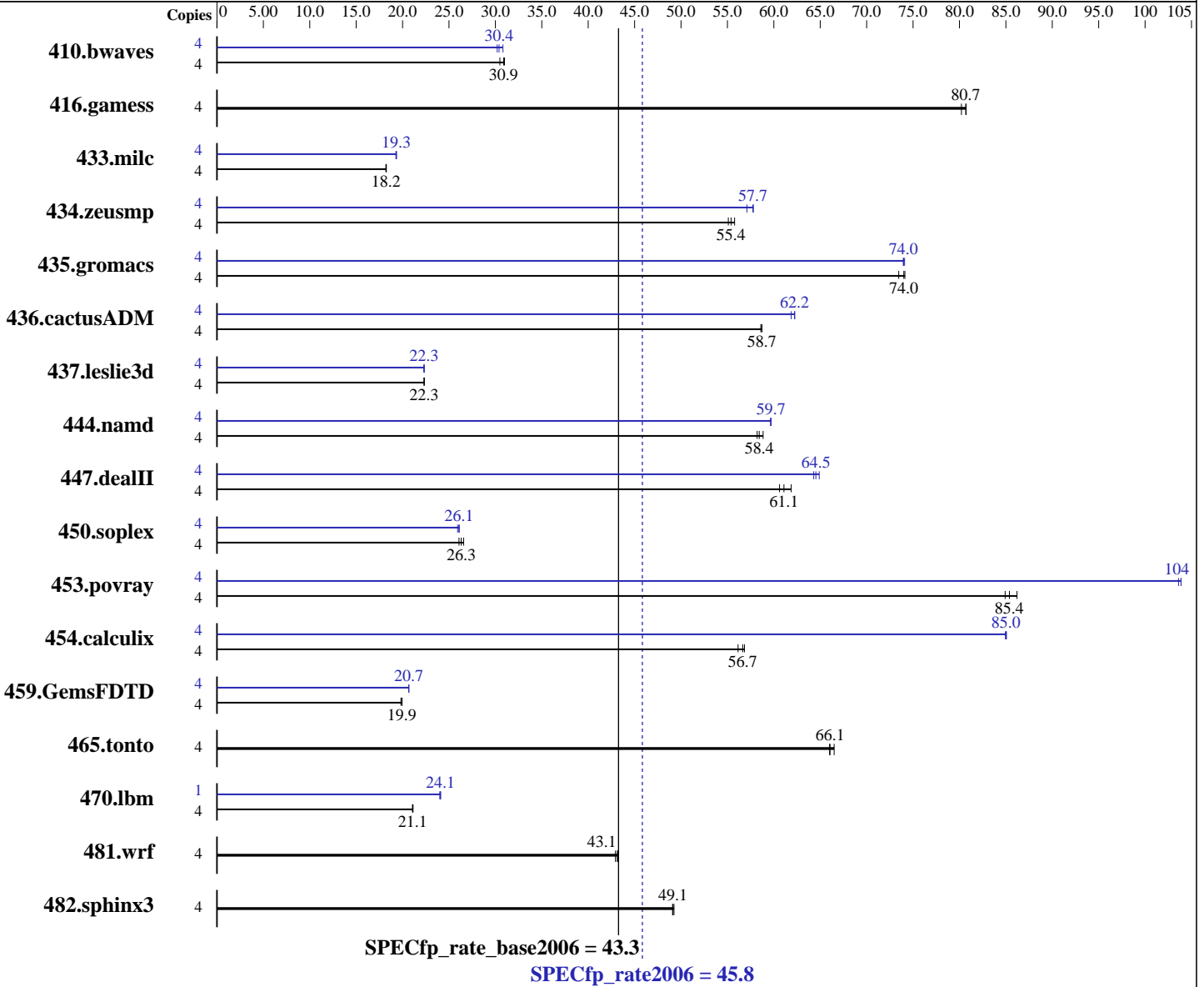|	
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CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Mar-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007

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

Compiler: Intel C++ Compiler
for applications running on Intel 64,
Version 10.1, Build 20070913
Intel Visual Fortran Compiler
for applications running on Intel 64,
Version 10.1, Build 20070913
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	**1760**	**30.9**	1755	31.0	1783	30.5	4	1764	30.8	**1788**	**30.4**	1800	30.2
416.gamess	4	970	80.7	**971**	**80.7**	976	80.2	4	970	80.7	**971**	**80.7**	976	80.2
433.milc	4	2012	18.3	**2014**	**18.2**	2017	18.2	4	1904	19.3	1899	19.3	**1900**	**19.3**
434.zeusmp	4	**657**	**55.4**	661	55.1	653	55.8	4	637	57.1	**630**	**57.7**	630	57.8
435.gromacs	4	385	74.1	**386**	**74.0**	389	73.5	4	**386**	**74.0**	386	74.0	385	74.1
436.cactusADM	4	814	58.7	**814**	**58.7**	816	58.6	4	773	61.9	**768**	**62.2**	768	62.3
437.leslie3d	4	1684	22.3	1684	22.3	**1684**	**22.3**	4	1683	22.3	1687	22.3	**1685**	**22.3**
444.namd	4	545	58.8	**549**	**58.4**	551	58.2	4	537	59.7	**537**	**59.7**	538	59.6
447.dealII	4	**749**	**61.1**	755	60.6	740	61.9	4	**709**	**64.5**	712	64.3	705	64.9
450.soplex	4	1279	26.1	1255	26.6	**1268**	**26.3**	4	**1279**	**26.1**	1287	25.9	1278	26.1
453.povray	4	247	86.2	251	84.9	**249**	**85.4**	4	205	104	**205**	**104**	205	104
454.calculix	4	**582**	**56.7**	588	56.1	581	56.8	4	388	85.1	**388**	**85.0**	388	85.0
459.GemsFDTD	4	2128	19.9	2141	19.8	**2130**	**19.9**	4	2054	20.7	**2054**	**20.7**	2051	20.7
465.tonto	4	**596**	**66.1**	596	66.0	592	66.5	4	**596**	**66.1**	596	66.0	592	66.5
470.lbm	4	2601	21.1	2608	21.1	**2606**	**21.1**	1	572	24.0	570	24.1	**570**	**24.1**
481.wrf	4	1041	42.9	**1036**	**43.1**	1035	43.2	4	1041	42.9	**1036**	**43.1**	1035	43.2
482.sphinx3	4	1583	49.2	**1587**	**49.1**	1588	49.1	4	1583	49.2	**1587**	**49.1**	1588	49.1

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.
```

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Tested by: Fujitsu Siemens Computers

Test date: Mar-2008
Hardware Availability: Mar-2008
Software Availability: Nov-2007

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
```

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

Continued on next page

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Base Optimization Flags (Continued)

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`

450.soplex: `Same as 447.dealII`

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Peak Optimization Flags (Continued)

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: `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`

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

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