SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

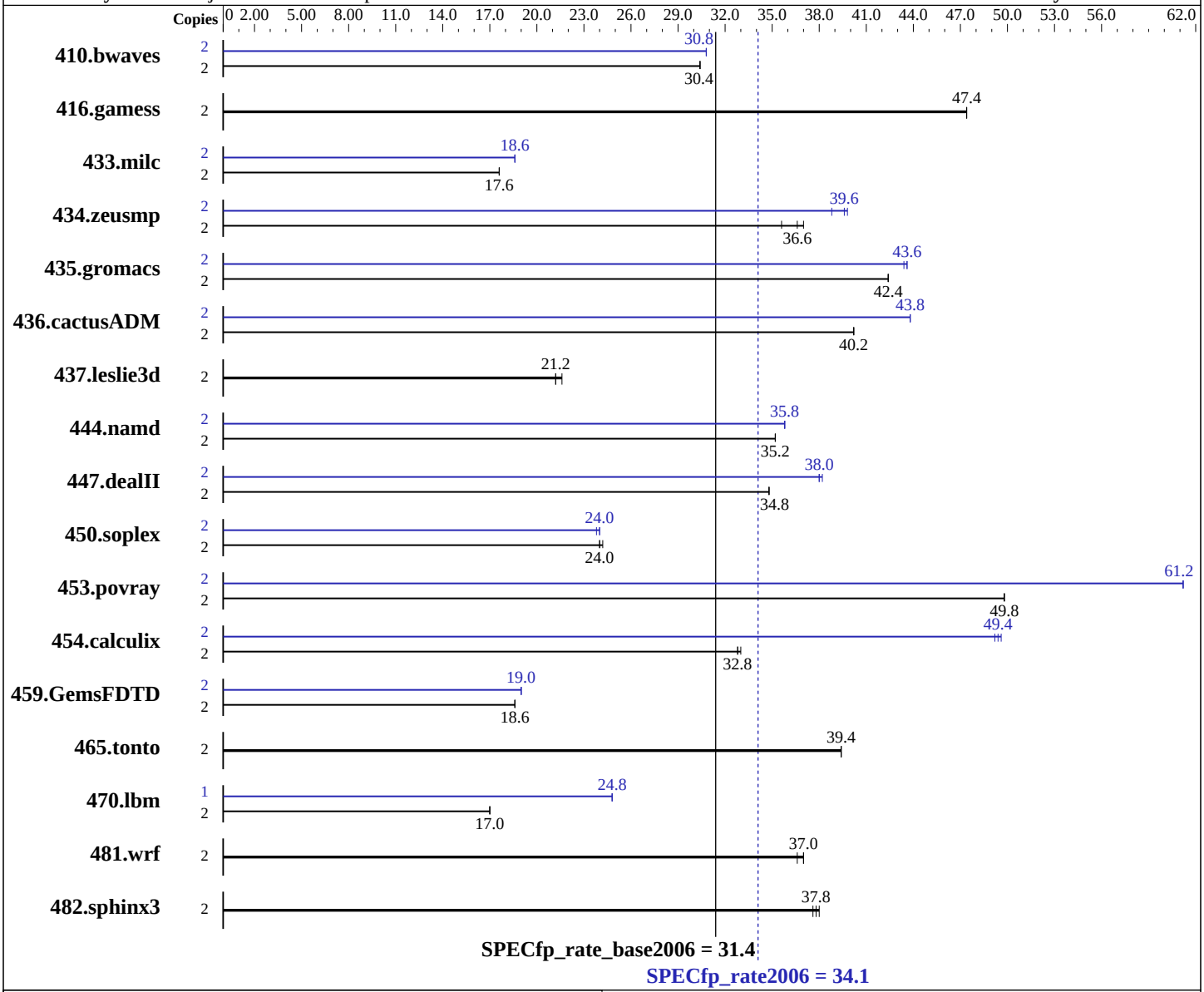
CELSIUS M460, Intel Core 2 Duo E8600 processor

SPECfp®_rate2006 = 34.1

SPECfp_rate_base2006 = 31.4

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

Test date: Oct-2008
Hardware Availability: Sep-2008
Software Availability: Feb-2008



Hardware

CPU Name:	Intel Core 2 Duo E8600
CPU Characteristics:	
CPU MHz:	3333
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	6 MB I+D on chip per chip

Continued on next page

Software

Operating System:	Windows Vista Ultimate (x64)

Continued on next page

SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

CELSIUS M460, Intel Core 2 Duo E8600 processor

SPECfp_rate2006 = 34.1

SPECfp_rate_base2006 = 31.4

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

Test date: Oct-2008
Hardware Availability: Sep-2008
Software Availability: Feb-2008

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 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	2	895	30.4	**892**	**30.4**	891	30.4	2	**883**	**30.8**	882	30.8	883	30.8
416.gamess	2	826	47.4	826	47.4	**826**	**47.4**	2	826	47.4	826	47.4	**826**	**47.4**
433.milc	2	**1048**	**17.6**	1047	17.6	1048	17.6	2	**987**	**18.6**	987	18.6	986	18.6
434.zeusmp	2	**498**	**36.6**	491	37.0	512	35.6	2	**459**	**39.6**	458	39.8	470	38.8
435.gromacs	2	336	42.4	**336**	**42.4**	336	42.4	2	329	43.4	328	43.6	**328**	**43.6**
436.cactusADM	2	594	40.2	**594**	**40.2**	594	40.2	2	545	43.8	**545**	**43.8**	545	43.8
437.leslie3d	2	874	21.6	887	21.2	**885**	**21.2**	2	874	21.6	887	21.2	**885**	**21.2**
444.namd	2	455	35.2	**455**	**35.2**	455	35.2	2	449	35.8	**448**	**35.8**	448	35.8
447.dealII	2	657	34.8	**656**	**34.8**	656	34.8	2	600	38.2	**601**	**38.0**	603	38.0
450.soplex	2	697	24.0	**697**	**24.0**	690	24.2	2	701	23.8	693	24.0	**695**	**24.0**
453.povray	2	213	49.8	213	49.8	**213**	**49.8**	2	174	61.2	**174**	**61.2**	174	61.2
454.calculix	2	**504**	**32.8**	504	32.8	501	33.0	2	336	49.2	**334**	**49.4**	332	49.6
459.GemsFDTD	2	1145	18.6	1144	18.6	**1144**	**18.6**	2	1117	19.0	1115	19.0	**1116**	**19.0**
465.tonto	2	499	39.4	499	39.4	**499**	**39.4**	2	499	39.4	499	39.4	**499**	**39.4**
470.lbm	2	1607	17.0	**1608**	**17.0**	1609	17.0	1	554	24.8	**554**	**24.8**	554	24.8
481.wrf	2	610	36.6	605	37.0	**605**	**37.0**	2	610	36.6	605	37.0	**605**	**37.0**
482.sphinx3	2	1035	37.6	**1030**	**37.8**	1028	38.0	2	1035	37.6	**1030**	**37.8**	1028	38.0

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, modified to Turnoff monitor: 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
```

Continued on next page

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

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.1.
Report generated on Tue Jul 22 20:35:26 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 29 October 2008.