SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

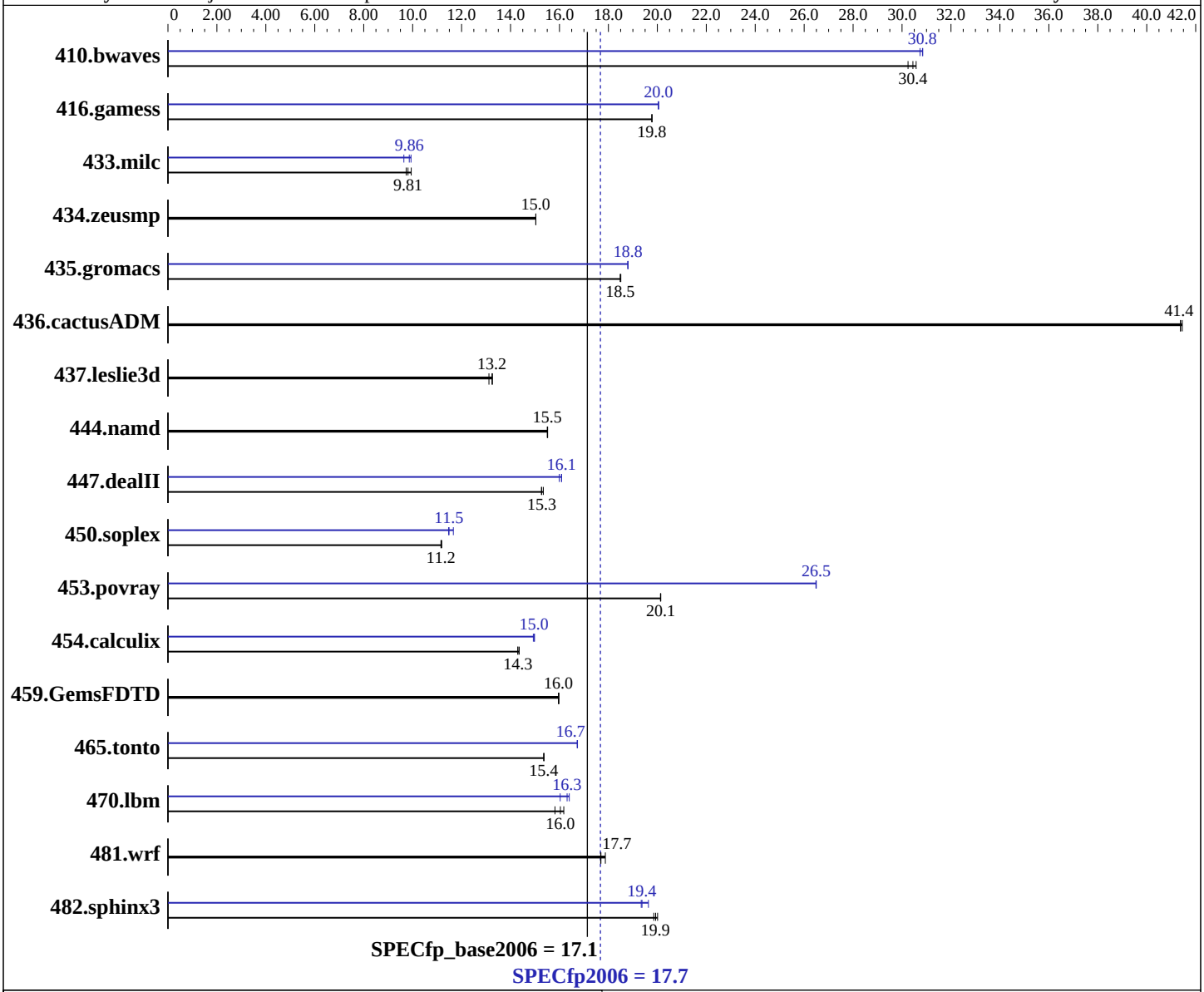
CELSIUS R640, Intel Xeon 5160 processor

SPECfp®2006 = 17.7

SPECfp_base2006 = 17.1

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

Test date: Nov-2006
Hardware Availability: Sep-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon 5160
CPU Characteristics:	Dual Core, 3.0 GHz
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip

Continued on next page

Software

Operating System:	Windows XP Professional x64 Edition
Compiler:	Intel C++ Compiler for EM64T version 9.1 - Build 20061104, Package-ID W_CC_C_9.1.033 Intel Fortran Compiler for EM64T version 9.1 - Build 20061104, Package-ID W_FC_C_9.1.033 Microsoft Visual Studio 2005 (libr. & linker)
Auto Parallel:	Yes
File System:	NTFS
System State:	Default

Continued on next page

SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

CELSIUS R640, Intel Xeon 5160 processor

SPECfp2006 = 17.7

SPECfp_base2006 = 17.1

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

Test date: Nov-2006
Hardware Availability: Sep-2006
Software Availability: Nov-2006

L3 Cache: None
Other Cache: None
Memory: 8 GB (8x1 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem: SATA II 7200 rpm
Other Hardware: None

Base Pointers: 64-bit
Peak Pointers: 64-bit
Other Software: Smart Heap Library, Version 8

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	449	30.2	**446**	**30.4**	444	30.6	442	30.7	**441**	**30.8**	441	30.8
416.gamess	**990**	**19.8**	990	19.8	990	19.8	**977**	**20.0**	976	20.1	977	20.0
433.milc	923	9.94	**936**	**9.81**	943	9.74	**931**	**9.86**	952	9.64	924	9.93
434.zeusmp	605	15.0	605	15.0	**605**	**15.0**	605	15.0	605	15.0	**605**	**15.0**
435.gromacs	**386**	**18.5**	386	18.5	386	18.5	380	18.8	**380**	**18.8**	380	18.8
436.cactusADM	289	41.4	**289**	**41.4**	288	41.5	289	41.4	**289**	**41.4**	288	41.5
437.leslie3d	**710**	**13.2**	709	13.3	717	13.1	**710**	**13.2**	709	13.3	717	13.1
444.namd	517	15.5	**517**	**15.5**	517	15.5	517	15.5	**517**	**15.5**	517	15.5
447.dealII	746	15.3	750	15.3	**749**	**15.3**	715	16.0	**711**	**16.1**	711	16.1
450.soplex	745	11.2	747	11.2	**747**	**11.2**	715	11.7	727	11.5	**726**	**11.5**
453.povray	264	20.1	264	20.1	**264**	**20.1**	201	26.5	**201**	**26.5**	201	26.5
454.calculix	**577**	**14.3**	577	14.3	575	14.4	551	15.0	553	14.9	**551**	**15.0**
459.GemsFDTD	665	16.0	**665**	**16.0**	664	16.0	665	16.0	**665**	**16.0**	664	16.0
465.tonto	**641**	**15.4**	641	15.4	640	15.4	588	16.7	**588**	**16.7**	588	16.7
470.lbm	**857**	**16.0**	869	15.8	849	16.2	838	16.4	**842**	**16.3**	857	16.0
481.wrf	**631**	**17.7**	625	17.9	632	17.7	**631**	**17.7**	625	17.9	632	17.7
482.sphinx3	**978**	**19.9**	982	19.9	974	20.0	993	19.6	**1006**	**19.4**	1008	19.3

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

General Notes

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

Base Compiler Invocation

C benchmarks:

```
icl -Qvc8 -Qc99
```

C++ benchmarks:

```
icl -Qvc8
```

Continued on next page

Base Compiler Invocation (Continued)

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: -D_Complex= -DSPEC_CPU_P64
434.zeusmp: -DSPEC_CPU_P64
435.gromacs: -D_Complex= -DSPEC_CPU_P64
436.cactusADM: -D_Complex= -DSPEC_CPU_P64 -Qlowercase /assume:underscore
437.leslie3d: -DSPEC_CPU_P64
444.namd: -DSPEC_CPU_P64 /TP
447.dealII: -D_Complex= -DSPEC_CPU_P64 -DBOOST_NO_INTRINSIC_WCHAR_T -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
450.soplex: -DSPEC_CPU_P64
453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
454.calculix: -D_Complex= -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER -Qlowercase
459.GemsFDTD: -DSPEC_CPU_P64
465.tonto: -DSPEC_CPU_P64
470.lbm: -D_Complex= -DSPEC_CPU_P64
481.wrf: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
482.sphinx3: -D_Complex= -DSPEC_CPU_P64

Base Optimization Flags

C benchmarks:
-fast -Qparallel -F950000000 shlW32M.lib

C++ benchmarks:
-fast -Qparallel -Qcxx-features -F950000000 shlW32M.lib

Fortran benchmarks:
-fast -Qparallel -F950000000 shlW32M.lib

Benchmarks using both Fortran and C:
-fast -Qparallel -F950000000 shlW32M.lib

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:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000 shlW32M.lib

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features -F950000000 shlW32M.lib

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 -Qparallel -F950000000 shlW32M.lib

416.gamess: -fast -F950000000 shlW32M.lib

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

Continued on next page

Peak Optimization Flags (Continued)

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000 shlW32M.lib

436.cactusADM: basepeak = yes

454.calculix: Same as 435.gromacs

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.20090715.12.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.12.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 v1.0.
Report generated on Tue Jul 22 10:09:08 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 13 December 2006.