SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

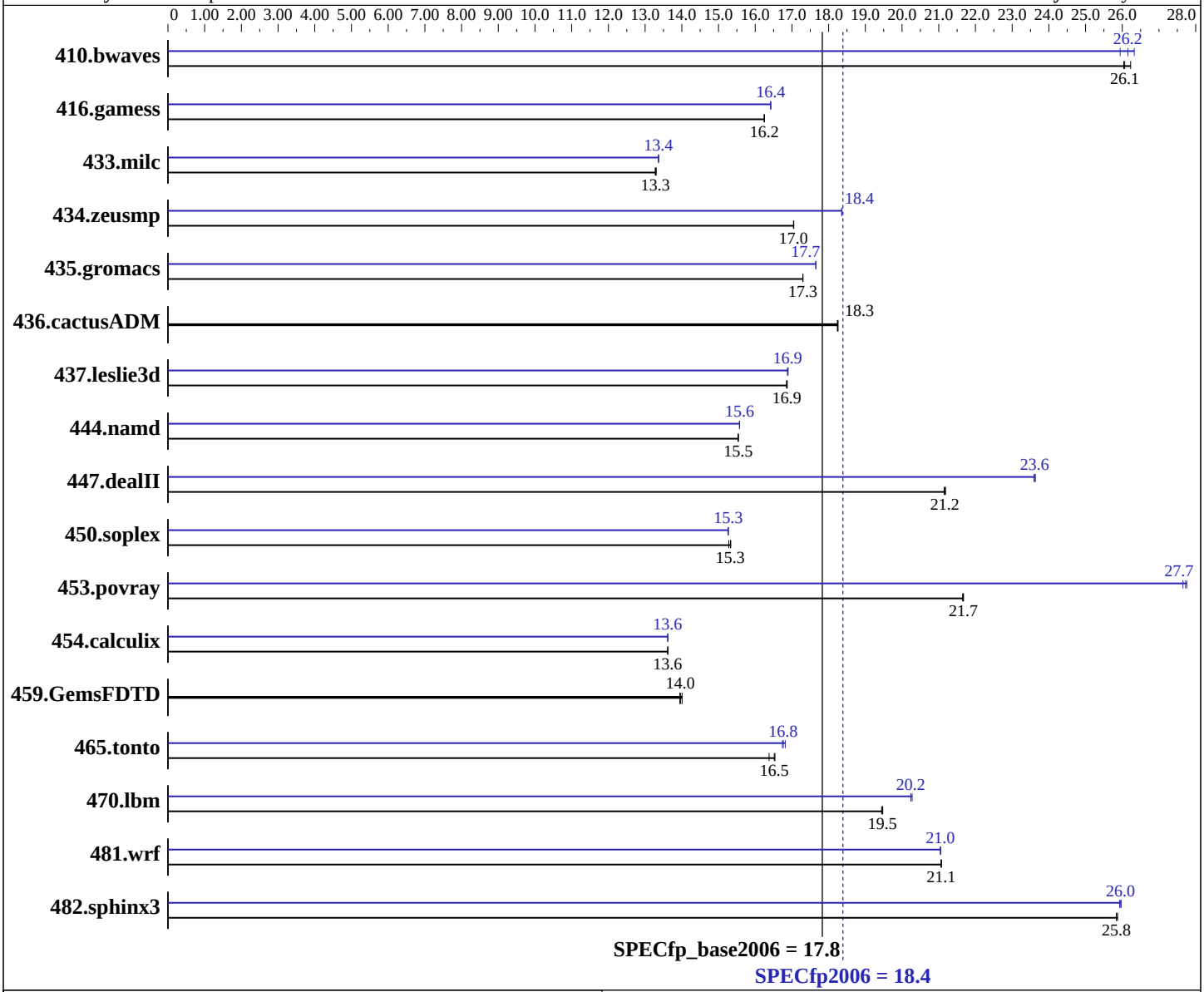
Supermicro
Motherboard C2SBA+

SPECfp®2006 = 18.4

SPECfp_base2006 = 17.8

CPU2006 license: 001176
Test sponsor: Supermicro
Tested by: Supermicro

Test date: Sep-2007
Hardware Availability: Jul-2007
Software Availability: May-2007



Hardware

CPU Name:	Intel Core 2 Duo E6850
CPU Characteristics:	3.00GHz, 1333MHz Bus
CPU MHz:	3000
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:	4 MB I+D on chip per chip

Continued on next page

Software

Operating System:	Windows Vista Ultimate (32-bit)
Compiler:	Intel C++ Compiler for IA32 version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 Intel Fortran Compiler for IA32 version 10.0 Build 20070426 Package ID: W_FC_P_10.0.025 Microsoft Visual Studio .Net 2003 (for libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default

Continued on next page

SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro Motherboard C2SBA+

SPECfp2006 = 18.4

SPECfp_base2006 = 17.8

CPU2006 license: 001176
Test sponsor: Supermicro
Tested by: Supermicro

Test date: Sep-2007
Hardware Availability: Jul-2007
Software Availability: May-2007

L3 Cache: None
Other Cache: None
Memory: 8 GB (4 X 2GB PC2-6400, CL5)
Disk Subsystem: 74GB SATA, 7200RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None
SmartHeap Library Version 8.0 from http://www.microquill.com/

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	518	26.2	522	26.0	**521**	**26.1**	**520**	**26.2**	516	26.3	524	25.9
416.gamess	**1205**	**16.2**	1205	16.2	1205	16.2	1192	16.4	**1192**	**16.4**	1192	16.4
433.milc	690	13.3	**691**	**13.3**	692	13.3	687	13.4	687	13.4	**687**	**13.4**
434.zeusmp	**534**	**17.0**	534	17.1	534	17.0	496	18.4	496	18.4	**496**	**18.4**
435.gromacs	**413**	**17.3**	413	17.3	413	17.3	404	17.7	**404**	**17.7**	405	17.7
436.cactusADM	655	18.3	655	18.2	**655**	**18.3**	655	18.3	655	18.2	**655**	**18.3**
437.leslie3d	558	16.9	**557**	**16.9**	557	16.9	556	16.9	**557**	**16.9**	557	16.9
444.namd	516	15.5	516	15.5	**516**	**15.5**	515	15.6	515	15.6	**515**	**15.6**
447.dealII	541	21.1	**541**	**21.2**	540	21.2	**485**	**23.6**	485	23.6	484	23.6
450.soplex	**544**	**15.3**	546	15.3	544	15.3	547	15.3	546	15.3	**546**	**15.3**
453.povray	246	21.6	245	21.7	**246**	**21.7**	**192**	**27.7**	192	27.7	192	27.8
454.calculix	606	13.6	**606**	**13.6**	606	13.6	606	13.6	**606**	**13.6**	606	13.6
459.GemsFDTD	**760**	**14.0**	757	14.0	761	13.9	**760**	**14.0**	757	14.0	761	13.9
465.tonto	601	16.4	**596**	**16.5**	595	16.5	588	16.7	**587**	**16.8**	585	16.8
470.lbm	706	19.5	707	19.4	**706**	**19.5**	**679**	**20.2**	679	20.2	678	20.3
481.wrf	530	21.1	530	21.1	**530**	**21.1**	530	21.1	**531**	**21.0**	531	21.0
482.sphinx3	**754**	**25.8**	753	25.9	754	25.8	**751**	**26.0**	752	25.9	751	26.0

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

General Notes

```
Tested systems can be used with case CSE-733i-450
To ensure system stability, a 420W (minimum) ATX power supply [4-pin +12V AND (20 or 24-pin)]
is required.
Product description located at:
http://www.supermicro.com/products/motherboard/Core2Duo/G33/C2SBA+II.cfm
The system bus runs at 1333 MHz
BIOS Setting : Default
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

Continued on next page

Base Compiler Invocation (Continued)

C++ benchmarks:
icl -Qvc7.1

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qvc7.1 -Qc99 ifort

Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG -DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:
-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:
-fast -Qcxx_features /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
-fast /F950000000

Benchmarks using both Fortran and C:
-fast /F950000000

Peak Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Fortran benchmarks:
ifort

Continued on next page

Peak Compiler Invocation (Continued)

Benchmarks using both Fortran and C:
icl -Qvc7.1 -Qc99 ifort

Peak Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
-DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Peak Optimization Flags

C benchmarks:

433.milc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Oa
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

470.lbm: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qscalar-rep- -Qprefetch /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

482.sphinx3: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

444.namd: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Oa
-Qcxx_features /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
-Qcxx_features /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

450.soplex: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

453.povray: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

Continued on next page

Peak Optimization Flags (Continued)

410.bwaves: `-fast /F950000000`

416.gamess: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep- /F950000000`

434.zeusmp: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-QxT -O2 -Qprec_div- -Qunroll0 -Qscalar-rep- /F950000000`

437.leslie3d: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F950000000`

459.GemsFDTD: `basepeak = yes`

465.tonto: `Same as 437.leslie3d`

Benchmarks using both Fortran and C:

435.gromacs: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Oa /F950000000`

436.cactusADM: `basepeak = yes`

454.calculix: `-fast /F950000000`

481.wrf: `Same as 454.calculix`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.18.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.18.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 14:05:00 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 2 October 2007.