



# SPEC® CFP2006 Result

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## Supermicro Motherboard C2SBA+

SPECfp®2006 = 18.4

SPECfp\_base2006 = 17.8

CPU2006 license: 001176

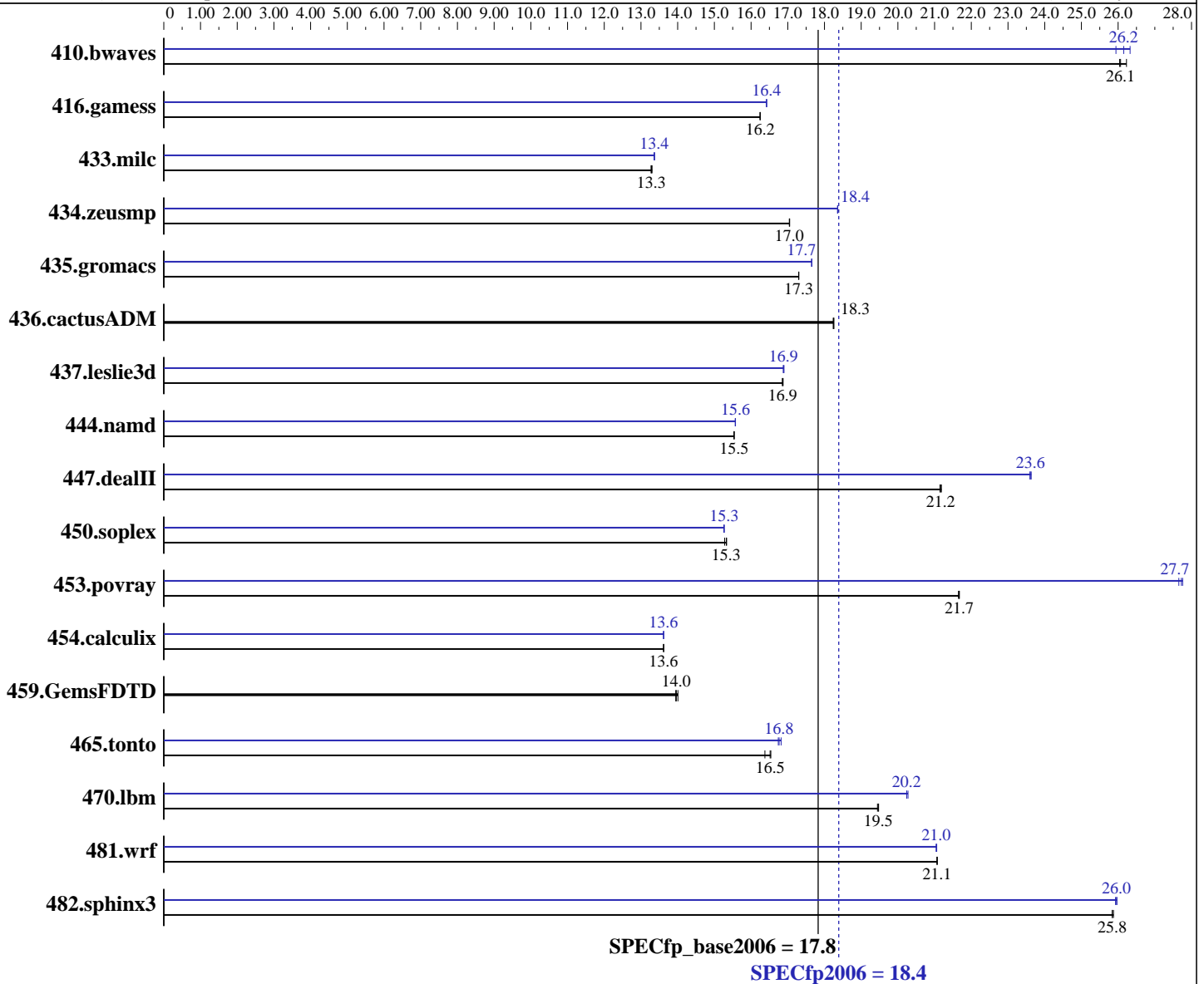
Test sponsor: Supermicro

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

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### 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

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

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**Test date:** Sep-2007  
**Hardware Availability:** Jul-2007  
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## 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

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## 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 -Qunroll12 -Oa  
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE  
470.lbm: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll12  
-Qscalar-rep- -Qprefetch /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE  
482.sphinx3: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll12  
/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:

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## 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-  
-Qunroll10 -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>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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