



# SPEC® CFP2006 Result

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## Intel Corporation

SPECfp®\_rate2006 = 88.5

Intel DH67BLB3 Motherboard (Intel Core i5-2500T)

SPECfp\_rate\_base2006 = 87.4

CPU2006 license: 13

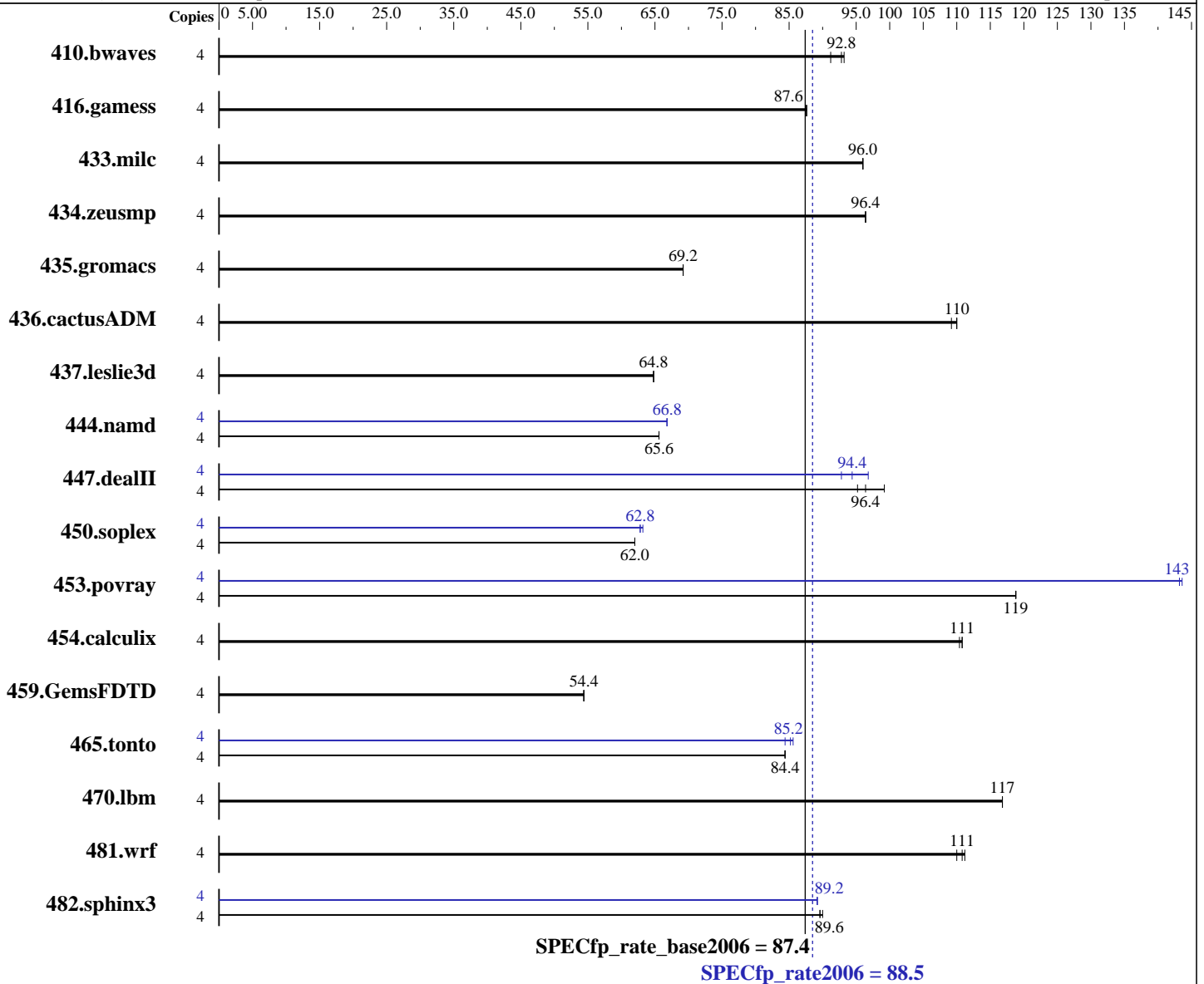
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2011

Hardware Availability: Mar-2011

Software Availability: Apr-2011



### Hardware

CPU Name: Intel Core i5-2500T  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.3 GHz  
 CPU MHz: 2300  
 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: 256 KB I+D on chip per core

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### Software

Operating System: Windows 7 Ultimate (64-bit)  
 Compiler: Intel C++ Compiler XE for Intel 64 Version 12.0.3.176 Build 20110309  
 Intel Visual Fortran Compiler XE for Intel 64 Version 12.0.3.176 Build 20110309  
 Microsoft Visual Studio 2008 Professional SP1 (for libraries)  
 Auto Parallel: No  
 File System: NTFS

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L3 Cache: 6 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 4 GB (2 x 2 GB 2Rx8 PC3-10600U-9)  
 Disk Subsystem: Seagate 1 TB SATA, 7200 RPM  
 Other Hardware: None

System State: Default  
 Base Pointers: 32/64-bit  
 Peak Pointers: 32/64-bit  
 Other Software: SmartHeap Library Version 9.01 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	597	91.2	584	93.2	<b>585</b>	<b>92.8</b>	4	597	91.2	584	93.2	<b>585</b>	<b>92.8</b>
416.gamess	4	894	87.6	894	87.6	<b>894</b>	<b>87.6</b>	4	894	87.6	894	87.6	<b>894</b>	<b>87.6</b>
433.milc	4	382	96.0	382	96.0	<b>382</b>	<b>96.0</b>	4	382	96.0	382	96.0	<b>382</b>	<b>96.0</b>
434.zeusmp	4	378	96.4	<b>377</b>	<b>96.4</b>	377	96.4	4	378	96.4	<b>377</b>	<b>96.4</b>	377	96.4
435.gromacs	4	412	69.2	<b>412</b>	<b>69.2</b>	412	69.2	4	412	69.2	<b>412</b>	<b>69.2</b>	412	69.2
436.cactusADM	4	435	110	<b>435</b>	<b>110</b>	437	109	4	435	110	<b>435</b>	<b>110</b>	437	109
437.leslie3d	4	580	64.8	580	64.8	<b>580</b>	<b>64.8</b>	4	580	64.8	580	64.8	<b>580</b>	<b>64.8</b>
444.namd	4	489	65.6	<b>489</b>	<b>65.6</b>	489	65.6	4	481	66.8	<b>481</b>	<b>66.8</b>	482	66.8
447.dealII	4	<b>476</b>	<b>96.4</b>	462	99.2	480	95.2	4	492	92.8	<b>485</b>	<b>94.4</b>	472	96.8
450.soplex	4	537	62.0	537	62.0	<b>537</b>	<b>62.0</b>	4	530	62.8	529	63.2	<b>530</b>	<b>62.8</b>
453.povray	4	179	119	179	119	<b>179</b>	<b>119</b>	4	<b>148</b>	<b>143</b>	148	144	148	143
454.calculix	4	299	110	297	111	<b>298</b>	<b>111</b>	4	299	110	297	111	<b>298</b>	<b>111</b>
459.GemsFDTD	4	780	54.4	777	54.4	<b>777</b>	<b>54.4</b>	4	780	54.4	777	54.4	<b>777</b>	<b>54.4</b>
465.tonto	4	466	84.4	<b>467</b>	<b>84.4</b>	467	84.4	4	460	85.6	466	84.4	<b>462</b>	<b>85.2</b>
470.lbm	4	471	117	471	117	<b>471</b>	<b>117</b>	4	471	117	471	117	<b>471</b>	<b>117</b>
481.wrf	4	406	110	402	111	<b>403</b>	<b>111</b>	4	406	110	402	111	<b>403</b>	<b>111</b>
482.sphinx3	4	869	89.6	<b>868</b>	<b>89.6</b>	867	90.0	4	<b>873</b>	<b>89.2</b>	872	89.2	873	89.2

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

## Submit Notes

The config file option 'submit' was used.  
 The start command with the /affinity switch was used to bind processes to cores

## General Notes

Tested systems can be used with Shin-G ATX case,  
 PC Power and Cooling 1200W power supply

## Base Compiler Invocation

C benchmarks:  
 icl -Qvc9 -Qstd=c99

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## Base Compiler Invocation (Continued)

C++ benchmarks:

icl -Qvc9

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc9 -Qstd=c99 ifort

## Base Portability Flags

410.bwaves: -DSPEC\_CPU\_P64 -names:lowercase  
 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 /names:lowercase /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 /names:lowercase  
 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:

-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qauto-ilp32 /F1000000000  
-link /FORCE:MULTIPLE

C++ benchmarks:

-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qcxx-features  
-Qauto-ilp32 /F1000000000 shlw64M.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias /F1000000000  
-link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qauto-ilp32 /F1000000000  
-link /FORCE:MULTIPLE



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## Peak Compiler Invocation

C benchmarks:

icl -Qvc9 -Qstd=c99

C++ benchmarks:

icl -Qvc9

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc9 -Qstd=c99 ifort

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes

470.lbm: basepeak = yes

482.sphinx3: -QxAVX -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
-Qauto-ilp32 /F1000000000 -link /FORCE:MULTIPLE

C++ benchmarks:

444.namd: -QxAVX(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo  
-O3 -Qprec-div- -Oa -Qauto-ilp32 /F1000000000 sh1W64M.lib  
-link /FORCE:MULTIPLE

447.dealII: -QxAVX(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo  
-O3 -Qprec-div- -Qunroll2 -Qansi-alias -Qscalar-rep-  
-Qauto-ilp32 /F1000000000 sh1W64M.lib  
-link /FORCE:MULTIPLE

450.soplex: -QxAVX(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo  
-O3 -Qauto-ilp32 /F1000000000 sh1W64M.lib  
-link /FORCE:MULTIPLE

453.povray: -QxAVX(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo  
-O3 -Qprec-div- -Qopt-prefetch -Qauto-ilp32 /F1000000000  
sh1W64M.lib -link /FORCE:MULTIPLE

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## Peak Optimization Flags (Continued)

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -QxAVX(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo  
-O3 -Qprec-div- -Qunroll4 -Qauto /F1000000000  
-link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic12-winx64-revB.20110808.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic12-winx64-revB.20110808.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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