



# SPEC<sup>®</sup> CFP2006 Result

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## Intel Corporation

### SPECfp<sup>®</sup>\_rate2006 = 52.5

### Intel DH57JG Motherboard (Intel Core i3-560)

### SPECfp\_rate\_base2006 = 52.1

CPU2006 license: 13

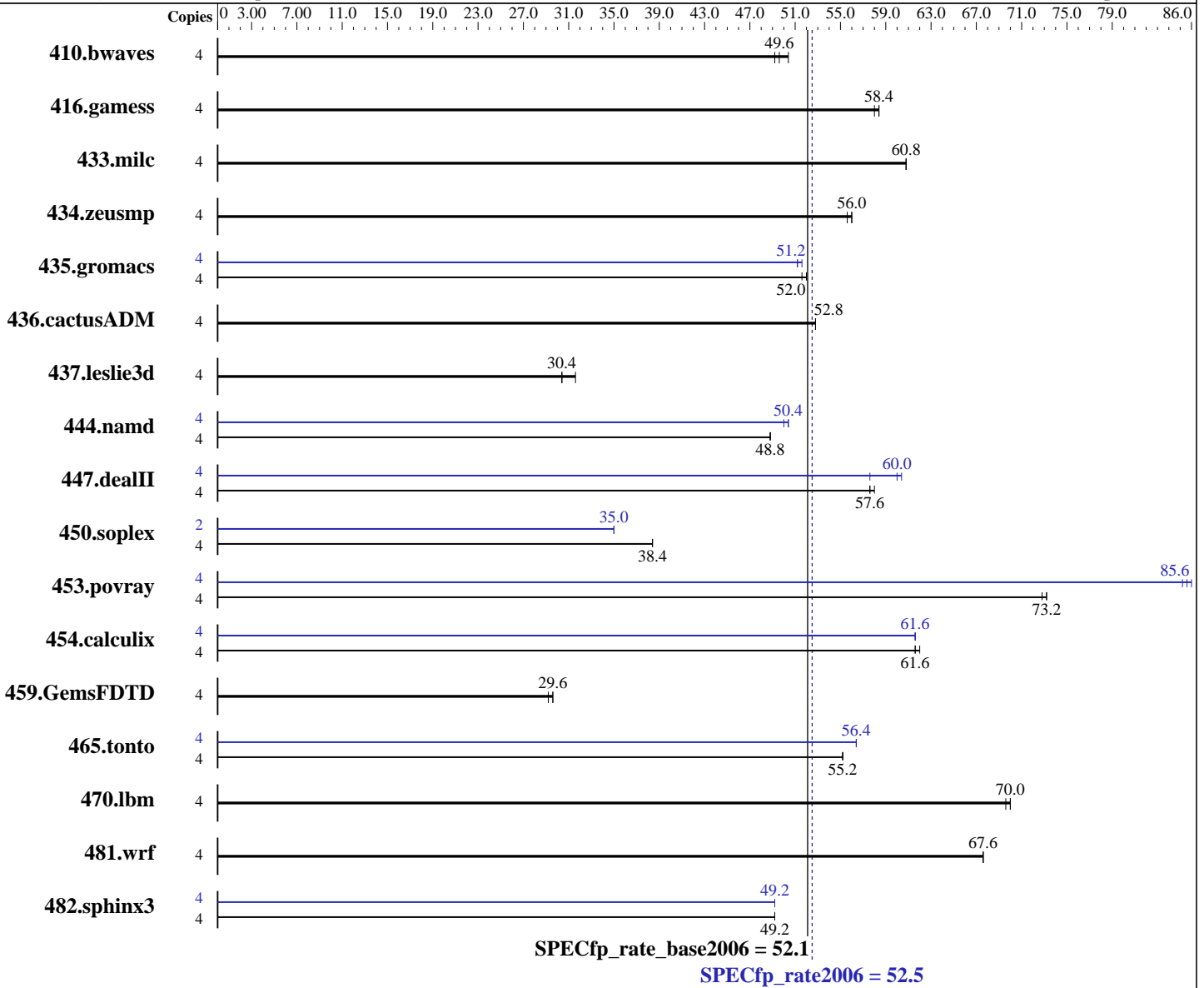
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2011

Hardware Availability: Aug-2010

Software Availability: Apr-2011



### Hardware

CPU Name: Intel Core i3-560  
 CPU Characteristics: 3333  
 CPU MHz: 3333  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip, 2 threads/core  
 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: 4 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	1102	49.2	<b><u>1097</u></b>	<b><u>49.6</u></b>	1083	50.4	4	1102	49.2	<b><u>1097</u></b>	<b><u>49.6</u></b>	1083	50.4
416.gamess	4	1342	58.4	<b><u>1343</u></b>	<b><u>58.4</u></b>	1352	58.0	4	1342	58.4	<b><u>1343</u></b>	<b><u>58.4</u></b>	1352	58.0
433.milc	4	<b><u>604</u></b>	<b><u>60.8</u></b>	605	60.8	604	60.8	4	<b><u>604</u></b>	<b><u>60.8</u></b>	605	60.8	604	60.8
434.zeusmp	4	648	56.0	656	55.6	<b><u>652</u></b>	<b><u>56.0</u></b>	4	648	56.0	656	55.6	<b><u>652</u></b>	<b><u>56.0</u></b>
435.gromacs	4	552	51.6	549	52.0	<b><u>550</u></b>	<b><u>52.0</u></b>	4	554	51.6	<b><u>556</u></b>	<b><u>51.2</u></b>	557	51.2
436.cactusADM	4	907	52.8	<b><u>906</u></b>	<b><u>52.8</u></b>	904	52.8	4	907	52.8	<b><u>906</u></b>	<b><u>52.8</u></b>	904	52.8
437.leslie3d	4	<b><u>1235</u></b>	<b><u>30.4</u></b>	1238	30.4	1184	31.6	4	<b><u>1235</u></b>	<b><u>30.4</u></b>	1238	30.4	1184	31.6
444.namd	4	660	48.8	659	48.8	<b><u>659</u></b>	<b><u>48.8</u></b>	4	639	50.0	639	50.4	<b><u>639</u></b>	<b><u>50.4</u></b>
447.dealII	4	795	57.6	<b><u>795</u></b>	<b><u>57.6</u></b>	790	58.0	4	<b><u>761</u></b>	<b><u>60.0</u></b>	796	57.6	757	60.4
450.soplex	4	869	38.4	<b><u>869</u></b>	<b><u>38.4</u></b>	869	38.4	2	477	35.0	477	35.0	<b><u>477</u></b>	<b><u>35.0</u></b>
453.povray	4	<b><u>291</u></b>	<b><u>73.2</u></b>	293	72.8	291	73.2	4	249	85.2	<b><u>249</u></b>	<b><u>85.6</u></b>	247	86.0
454.calculix	4	537	61.6	534	62.0	<b><u>535</u></b>	<b><u>61.6</u></b>	4	535	61.6	<b><u>536</u></b>	<b><u>61.6</u></b>	536	61.6
459.GemsFDTD	4	<b><u>1441</u></b>	<b><u>29.6</u></b>	1445	29.2	1439	29.6	4	<b><u>1441</u></b>	<b><u>29.6</u></b>	1445	29.2	1439	29.6
465.tonto	4	712	55.2	711	55.2	<b><u>711</u></b>	<b><u>55.2</u></b>	4	<b><u>699</u></b>	<b><u>56.4</u></b>	700	56.4	699	56.4
470.lbm	4	787	70.0	<b><u>787</u></b>	<b><u>70.0</u></b>	788	69.6	4	787	70.0	<b><u>787</u></b>	<b><u>70.0</u></b>	788	69.6
481.wrf	4	<b><u>662</u></b>	<b><u>67.6</u></b>	660	67.6	662	67.6	4	<b><u>662</u></b>	<b><u>67.6</u></b>	660	67.6	662	67.6
482.sphinx3	4	<b><u>1585</u></b>	<b><u>49.2</u></b>	1583	49.2	1587	49.2	4	<b><u>1582</u></b>	<b><u>49.2</u></b>	1582	49.2	1582	49.2

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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CPU2006 license: 13

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Hardware Availability: Aug-2010

Tested by: Intel Corporation

Software Availability: Apr-2011

## 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:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qansi-alias -Qauto-ilp32  
/F1000000000 -link /FORCE:MULTIPLE

C++ benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qansi-alias -Qcxx-features  
-Qauto-ilp32 /F1000000000 shlw64M.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qansi-alias /F1000000000  
-link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

-QxSSE4.2 -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: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
-Qauto-ilp32 /F1000000000 -link /FORCE:MULTIPLE

C++ benchmarks:

444.namd: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Oa -Qauto-ilp32 /F1000000000  
shlW64M.lib -link /FORCE:MULTIPLE

447.dealII: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
-Qscalar-rep- -Qauto-ilp32 /F1000000000 shlW64M.lib  
-link /FORCE:MULTIPLE

450.soplex: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qauto-ilp32 /F1000000000 shlW64M.lib  
-link /FORCE:MULTIPLE

453.povray: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qopt-prefetch -Qauto-ilp32  
/F1000000000 shlW64M.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: -QxSSE4.2(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: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qopt-prefetch -Qauto-ilp32  
/F1000000000 -link /FORCE:MULTIPLE

436.cactusADM: basepeak = yes

454.calculix: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qauto-ilp32 /F1000000000  
-link /FORCE:MULTIPLE

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at

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

<http://www.spec.org/cpu2006/flags/Intel-Windows-Platform-Settings.20110719.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic12-winx64-revC.xml>

<http://www.spec.org/cpu2006/flags/Intel-Windows-Platform-Settings.20110719.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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