



# SPEC® CFP2006 Result

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## Intel Corporation

### SPECfp®\_rate2006 = 28.2

Intel DQ45CB motherboard (Intel Core 2 Duo E7300)

### SPECfp\_rate\_base2006 = 27.3

CPU2006 license: 13

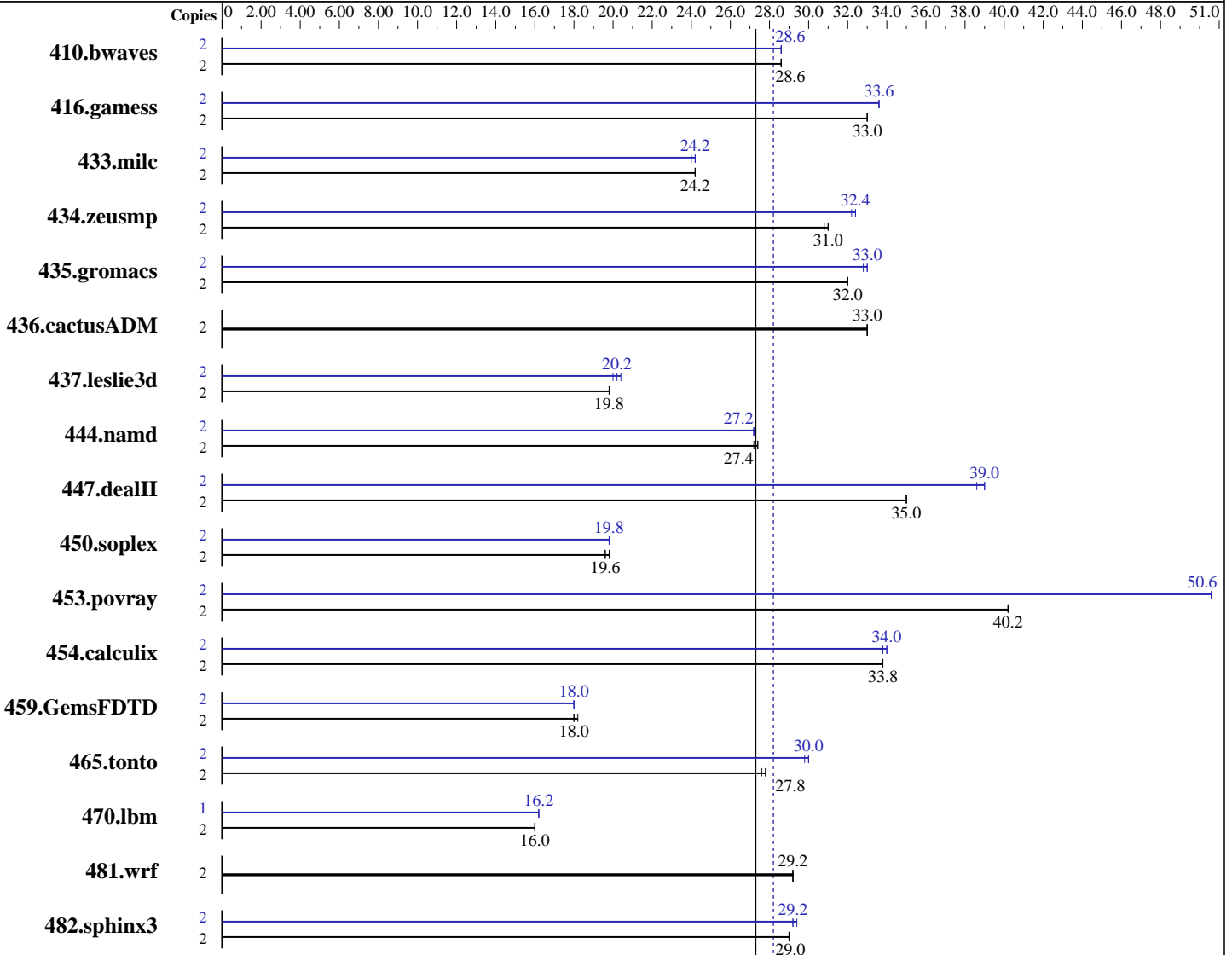
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Apr-2009

Hardware Availability: May-2009

Software Availability: Nov-2008



SPECfp\_rate\_base2006 = 27.3

SPECfp\_rate2006 = 28.2

### Hardware

CPU Name: Intel Core 2 Duo E7300  
 CPU Characteristics:  
 CPU MHz: 2666  
 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: 3 MB I+D on chip per chip

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### Software

Operating System: Windows Vista Ultimate w/ SP1 (64-bit)  
 Compiler: Intel C++ Compiler Professional 11.0 for IA32  
 Build 20080930 Package ID: w\_cproc\_p\_11.0.054  
 Intel Visual Fortran Compiler Professional 11.0 for IA32  
 Build 20080930 Package ID: w\_cprof\_p\_11.0.054  
 Microsoft Visual Studio 2008 (for libraries)  
 Auto Parallel: No  
 File System: NTFS

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L3 Cache: None  
Other Cache: None  
Memory: 4 GB (4x1GB DDR2-800 CL5)  
Disk Subsystem: Seagate 320 GB SATA, 7200RPM  
Other Hardware: None

System State: Default  
Base Pointers: 32-bit  
Peak Pointers: 32-bit  
Other Software: SmartHeap Library Version 8.1 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	2	949	28.6	<b>950</b>	<b>28.6</b>	951	28.6	2	949	28.6	<b>949</b>	<b>28.6</b>	950	28.6
416.gamess	2	1186	33.0	<b>1186</b>	<b>33.0</b>	1185	33.0	2	1167	33.6	<b>1167</b>	<b>33.6</b>	1167	33.6
433.milc	2	762	24.2	<b>761</b>	<b>24.2</b>	761	24.2	2	763	24.0	760	24.2	<b>760</b>	<b>24.2</b>
434.zeusmp	2	589	30.8	587	31.0	<b>588</b>	<b>31.0</b>	2	567	32.2	562	32.4	<b>562</b>	<b>32.4</b>
435.gromacs	2	445	32.0	<b>445</b>	<b>32.0</b>	446	32.0	2	<b>434</b>	<b>33.0</b>	434	33.0	434	32.8
436.cactusADM	2	725	33.0	725	33.0	<b>725</b>	<b>33.0</b>	2	725	33.0	725	33.0	<b>725</b>	<b>33.0</b>
437.leslie3d	2	<b>953</b>	<b>19.8</b>	952	19.8	954	19.8	2	938	20.0	926	20.4	<b>927</b>	<b>20.2</b>
444.namd	2	<b>587</b>	<b>27.4</b>	587	27.4	588	27.2	2	589	27.2	<b>589</b>	<b>27.2</b>	589	27.2
447.dealII	2	652	35.0	652	35.0	<b>652</b>	<b>35.0</b>	2	592	38.6	<b>587</b>	<b>39.0</b>	586	39.0
450.soplex	2	851	19.6	<b>847</b>	<b>19.6</b>	847	19.8	2	845	19.8	<b>844</b>	<b>19.8</b>	842	19.8
453.povray	2	<b>264</b>	<b>40.2</b>	264	40.2	264	40.2	2	210	50.6	210	50.6	<b>210</b>	<b>50.6</b>
454.calculix	2	488	33.8	488	33.8	<b>488</b>	<b>33.8</b>	2	487	33.8	486	34.0	<b>486</b>	<b>34.0</b>
459.GemsFDTD	2	1182	18.0	<b>1176</b>	<b>18.0</b>	1170	18.2	2	1183	18.0	<b>1183</b>	<b>18.0</b>	1183	18.0
465.tonto	2	712	27.6	707	27.8	<b>708</b>	<b>27.8</b>	2	655	30.0	659	29.8	<b>658</b>	<b>30.0</b>
470.lbm	2	1722	16.0	1721	16.0	<b>1721</b>	<b>16.0</b>	1	850	16.2	851	16.2	<b>850</b>	<b>16.2</b>
481.wrf	2	766	29.2	<b>765</b>	<b>29.2</b>	764	29.2	2	766	29.2	<b>765</b>	<b>29.2</b>	764	29.2
482.sphinx3	2	<b>1342</b>	<b>29.0</b>	1341	29.0	1343	29.0	2	1329	29.4	1331	29.2	<b>1331</b>	<b>29.2</b>

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.

## General Notes

Tested systems can be used with Shin-G ATX case,  
Antec Truepower Trio power supply TP3-650  
Binaries were built on Windows Vista Ultimate (32-bit)

## Base Compiler Invocation

C benchmarks:  
icl -Qvc9 -Qc99

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## Base Compiler Invocation (Continued)

C++ benchmarks:

icl -Qvc9

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc9 -Qc99 ifort

## Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore  
444.namd: -TP  
447.dealII: -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
453.povray: -DSPEC\_CPU\_WINDOWS\_ICL  
454.calculix: -DSPEC\_CPU\_NOZMODIFIER -Qlowercase  
481.wrf: -DSPEC\_CPU\_WINDOWS\_ICL

## Base Optimization Flags

C benchmarks:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

C++ benchmarks:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features  
/F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

Benchmarks using both Fortran and C:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

## Peak Compiler Invocation

C benchmarks:

icl -Qvc9 -Qc99

C++ benchmarks:

icl -Qvc9

Fortran benchmarks:

ifort

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## Peak Compiler Invocation (Continued)

Benchmarks using both Fortran and C:  
icl -Qvc9 -Qc99 ifort

## Peak Portability Flags

436.cactusADM: -Qlowercase /assume:underscore  
444.namd: -TP  
447.dealII: -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
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: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Oa /F1000000000

470.lbm: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch  
/F1000000000

482.sphinx3: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 /F1000000000

C++ benchmarks:

444.namd: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Oa /F1000000000 shlw32m.lib  
-link /FORCE:MULTIPLE

447.dealII: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
-Qscalar-rep- /F1000000000 shlw32m.lib  
-link /FORCE:MULTIPLE

450.soplex: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- /F1000000000 shlw32m.lib  
-link /FORCE:MULTIPLE

453.povray: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll4 -Qansi-alias /F1000000000  
shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

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## Peak Optimization Flags (Continued)

410.bwaves: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

416.gamess: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep- /F1000000000

434.zeusmp: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo -O3 -Qprec-div- /F1000000000

437.leslie3d: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

459.GemsFDTD: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qopt-prefetch /F1000000000

465.tonto: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4 -Qauto /F1000000000

Benchmarks using both Fortran and C:

435.gromacs: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

436.cactusADM: basepeak = yes

454.calculix: -QxSSE4.1 -Qipo -O3 -Qprec-div- /F1000000000

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-ic11.0-win32-revA.20090710.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090710.xml>

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

Tested with SPEC CPU2006 v1.1.

Report generated on Wed Jul 23 01:23:19 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 23 June 2009.