



SPEC® CFP2006 Result

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Intel Corporation

SPECfp®_rate2006 = 39.2

Intel DQ45CB motherboard (Intel Core 2 Quad Q8200)

SPECfp_rate_base2006 = 38.2

CPU2006 license: 13

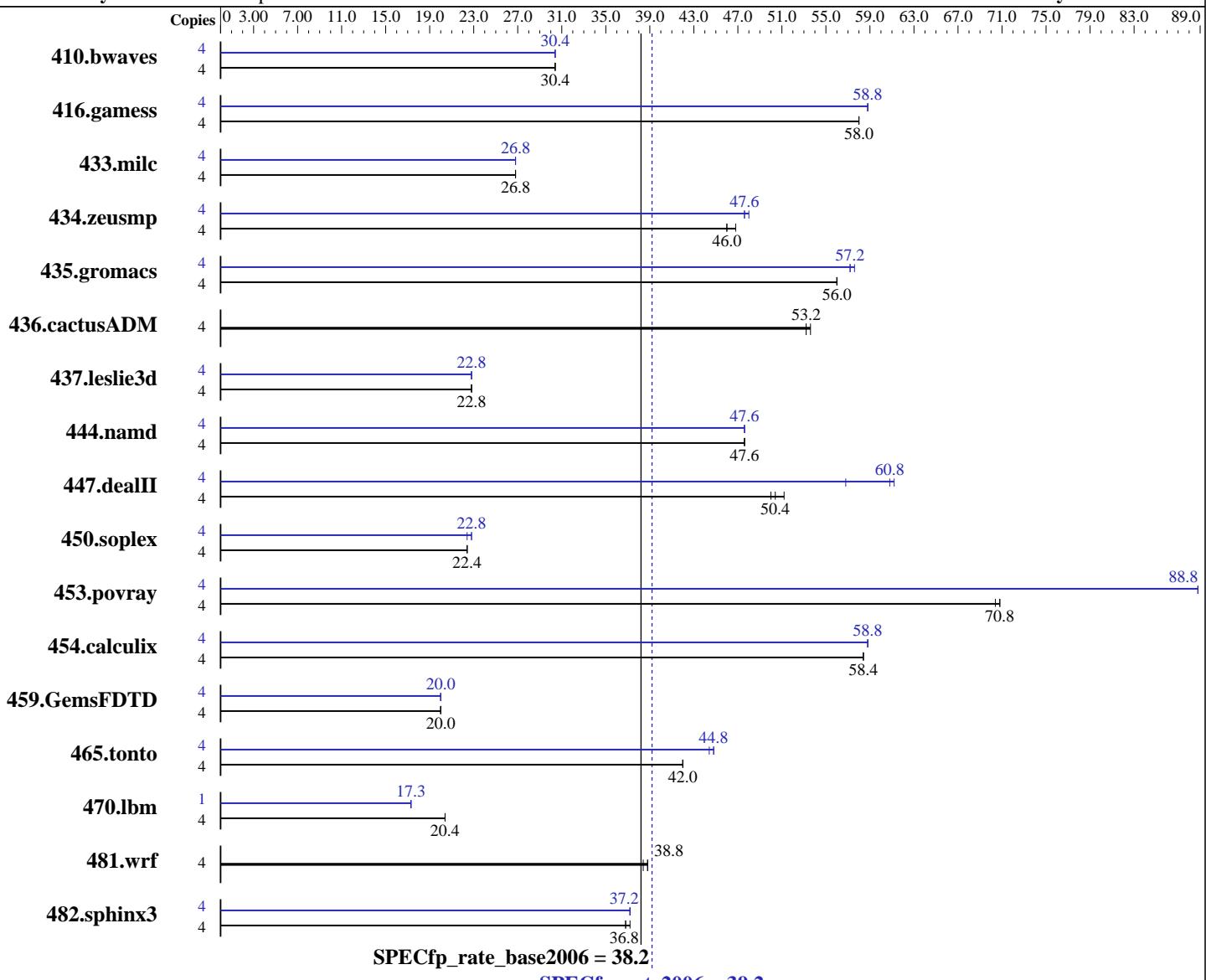
Test date: Apr-2009

Test sponsor: Intel Corporation

Hardware Availability: May-2009

Tested by: Intel Corporation

Software Availability: Nov-2008



Hardware

CPU Name: Intel Core 2 Quad Q8200
 CPU Characteristics:
 CPU MHz: 2333
 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: 4 MB I+D on chip per chip, 2 MB shared / 2 cores

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	4	1787	30.4	1785	30.4	1787	30.4	4	1785	30.4	1786	30.4	1785	30.4
416.gamess	4	1354	58.0	1353	58.0	1353	58.0	4	1333	58.8	1332	58.8	1331	58.8
433.milc	4	1373	26.8	1372	26.8	1373	26.8	4	1369	26.8	1370	26.8	1369	26.8
434.zeusmp	4	781	46.8	793	46.0	794	46.0	4	764	47.6	758	48.0	766	47.6
435.gromacs	4	509	56.0	509	56.0	509	56.0	4	499	57.2	499	57.2	497	57.6
436.cactusADM	4	896	53.2	895	53.6	897	53.2	4	896	53.2	895	53.6	897	53.2
437.leslie3d	4	1652	22.8	1651	22.8	1652	22.8	4	1639	22.8	1638	22.8	1639	22.8
444.namd	4	671	47.6	671	47.6	672	47.6	4	672	47.6	672	47.6	671	47.6
447.dealII	4	894	51.2	914	50.0	905	50.4	4	751	60.8	807	56.8	750	61.2
450.soplex	4	1502	22.4	1479	22.4	1478	22.4	4	1465	22.8	1474	22.8	1492	22.4
453.povray	4	301	70.8	301	70.8	302	70.4	4	240	88.8	239	88.8	240	88.8
454.calculix	4	565	58.4	565	58.4	564	58.4	4	563	58.8	562	58.8	560	58.8
459.GemsFDTD	4	2125	20.0	2125	20.0	2125	20.0	4	2142	20.0	2140	20.0	2140	20.0
465.tonto	4	934	42.0	935	42.0	933	42.0	4	875	44.8	884	44.4	879	44.8
470.lbm	4	2699	20.4	2698	20.4	2698	20.4	1	794	17.3	794	17.3	795	17.3
481.wrf	4	1156	38.8	1157	38.8	1158	38.4	4	1156	38.8	1157	38.8	1158	38.4
482.sphinx3	4	2107	36.8	2107	37.2	2112	36.8	4	2101	37.2	2098	37.2	2103	37.2

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.

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- -Qunroll12 -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- -Qunroll12 -Ob0 -Qopt-prefetch
/F1000000000

465.tonto: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll14 -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.

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