



SPEC® CFP2006 Result

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Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo E8200)

SPECfp®2006 = 18.8

SPECfp_base2006 = 18.2

CPU2006 license: 13

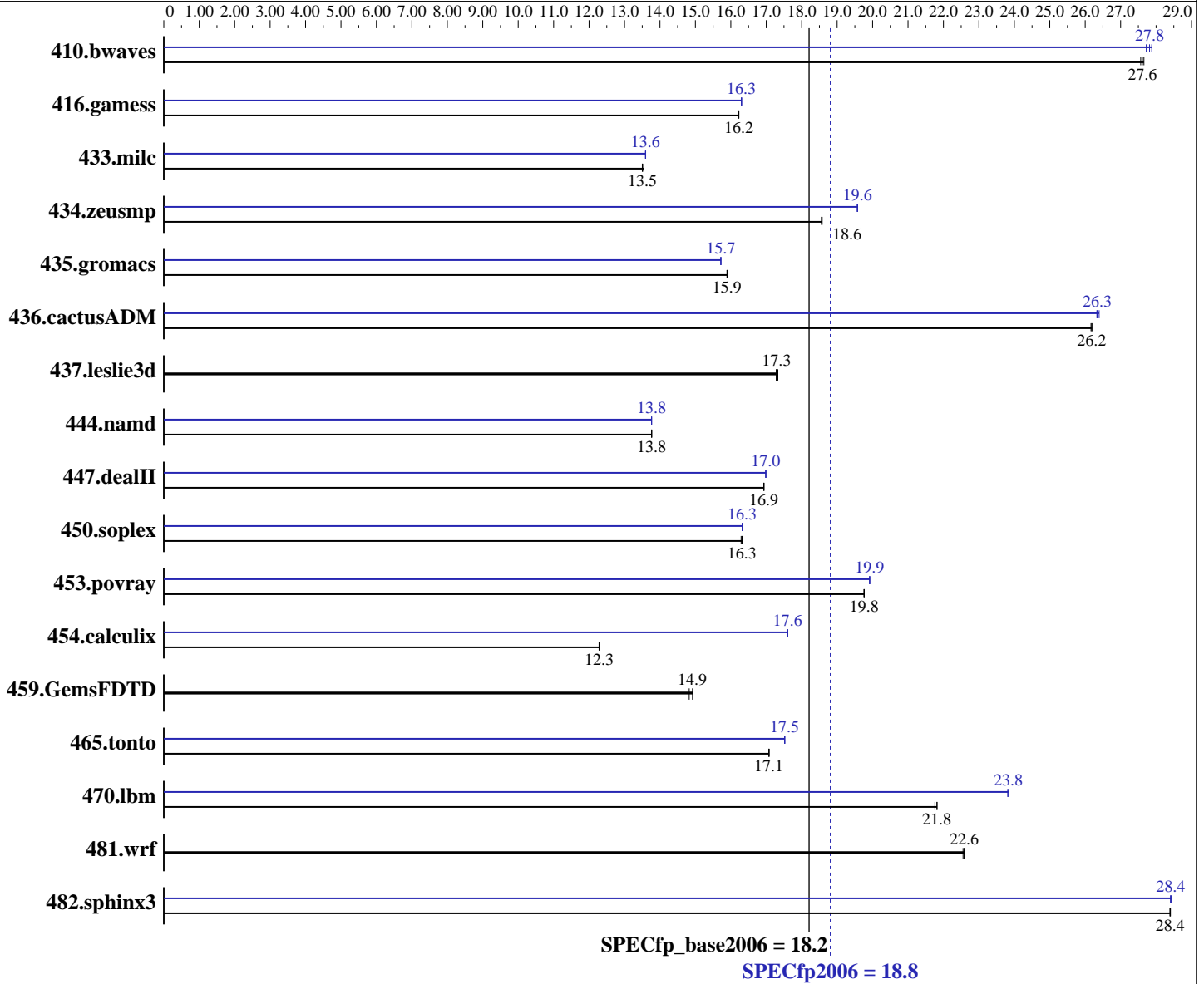
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Feb-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Duo E8200
 CPU Characteristics: 2.66 GHz, 1333 FSB
 CPU MHz: 2667
 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: 6 MB I+D on chip per chip

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Software

Operating System: Windows Vista Ultimate (64-bit)
 Compiler: Intel C++ Compiler for IA32 version 10.1
 Build 20070913 Package ID: w_cc_p_10.1.011
 Intel Fortran Compiler for IA32 version 10.1
 Build 20070913 Package ID: w_fc_p_10.1.011
 Microsoft Visual Studio 2005 SP1 (for libraries)

Auto Parallel: Yes
 File System: NTFS
 System State: Default

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L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB Micron DDR2-800 CL5)
Disk Subsystem: Seagate 320GB NCQ SATA, 16MB cache, 7200 RPM
Other Hardware: None

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	491	27.7	492	27.6	493	27.6	487	27.9	490	27.7	489	27.8
416.gamess	1207	16.2	1207	16.2	1207	16.2	1201	16.3	1201	16.3	1201	16.3
433.milc	678	13.5	680	13.5	680	13.5	675	13.6	676	13.6	675	13.6
434.zeusmp	490	18.6	490	18.6	490	18.6	465	19.6	465	19.6	465	19.6
435.gromacs	449	15.9	449	15.9	449	15.9	454	15.7	454	15.7	454	15.7
436.cactusADM	457	26.2	456	26.2	456	26.2	453	26.4	454	26.3	454	26.3
437.leslie3d	542	17.3	544	17.3	544	17.3	542	17.3	544	17.3	544	17.3
444.namd	583	13.8	583	13.8	583	13.8	583	13.8	583	13.8	583	13.8
447.dealII	676	16.9	676	16.9	676	16.9	673	17.0	673	17.0	674	17.0
450.soplex	511	16.3	511	16.3	512	16.3	511	16.3	511	16.3	511	16.3
453.povray	269	19.8	269	19.8	269	19.8	267	19.9	267	19.9	267	19.9
454.calculix	672	12.3	672	12.3	672	12.3	469	17.6	469	17.6	469	17.6
459.GemsFDTD	716	14.8	711	14.9	711	14.9	716	14.8	711	14.9	711	14.9
465.tonto	576	17.1	576	17.1	576	17.1	562	17.5	562	17.5	562	17.5
470.lbm	631	21.8	630	21.8	630	21.8	577	23.8	577	23.8	576	23.8
481.wrf	495	22.6	495	22.6	494	22.6	495	22.6	495	22.6	494	22.6
482.sphinx3	686	28.4	686	28.4	686	28.4	686	28.4	686	28.4	686	28.4

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 Shin-G ATX case, Antec NeoPower 480W power supply
Product description located as of 03/2008:

<http://www.intel.com/products/motherboard/DQ35JO/index.htm>

The system bus runs at 1333 MHz

System was configured with Asus EN8800GTX discrete graphics card

Binaries were built on Windows Vista Ultimate (32-bit)

The following VS 2005 SP1 updates were applied: KB926601 and KB932232

Base Compiler Invocation

C benchmarks:
icl -Qvc8 -Qc99

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Base Compiler Invocation (Continued)

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc8 -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:

-fast -Qparallel /F1000000000 libguide40.lib

C++ benchmarks:

-fast -Qparallel -Qcxx_features /F1000000000 shlw32m.lib
libguide40.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

-fast -Qparallel /F1000000000 libguide40.lib

Benchmarks using both Fortran and C:

-fast -Qparallel /F1000000000 libguide40.lib

Peak Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

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Peak Compiler Invocation (Continued)

Benchmarks using both Fortran and C:
icl -Qvc8 -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: -fast -Qunroll2 -Oa /F1000000000 libguide40.lib
470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000
libguide40.lib
482.sphinx3: -fast -Qunroll2 /F1000000000 libguide40.lib

C++ benchmarks:

444.namd: -fast -Oa -Qcxx_features /F1000000000 shlw32m.lib
libguide40.lib -link /FORCE:MULTIPLE
447.dealII: -fast -Qunroll2 -Qprefetch -Qcxx_features /F1000000000
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE
450.soplex: -fast -Qparallel -Qcxx_features /F1000000000 shlw32m.lib
libguide40.lib -link /FORCE:MULTIPLE
453.povray: -fast -Qunroll14 -Qcxx_features /F1000000000 shlw32m.lib
libguide40.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -fast -Qparallel -Qprefetch /F1000000000 libguide40.lib
416.gamess: -fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep-
/F1000000000 libguide40.lib
434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll10 -Qscalar-rep- /F1000000000
libguide40.lib

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Peak Optimization Flags (Continued)

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -fast -Qunroll4 -Qauto /F1000000000 libguide40.lib

Benchmarks using both Fortran and C:

435.gromacs: -fast -Oa -Qprefetch /F1000000000 libguide40.lib

436.cactusADM: -fast -Qunroll2 -Qparallel -Qprefetch /F1000000000
libguide40.lib

454.calculix: -fast -Qunroll-aggressive /F1000000000 libguide40.lib

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-ic10.1-win32-flags.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-flags.xml>

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For other inquiries, please contact webmaster@spec.org.

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