



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9300)

SPECfp®_rate2006 = 40.0

SPECfp_rate_base2006 = 38.8

CPU2006 license: 13

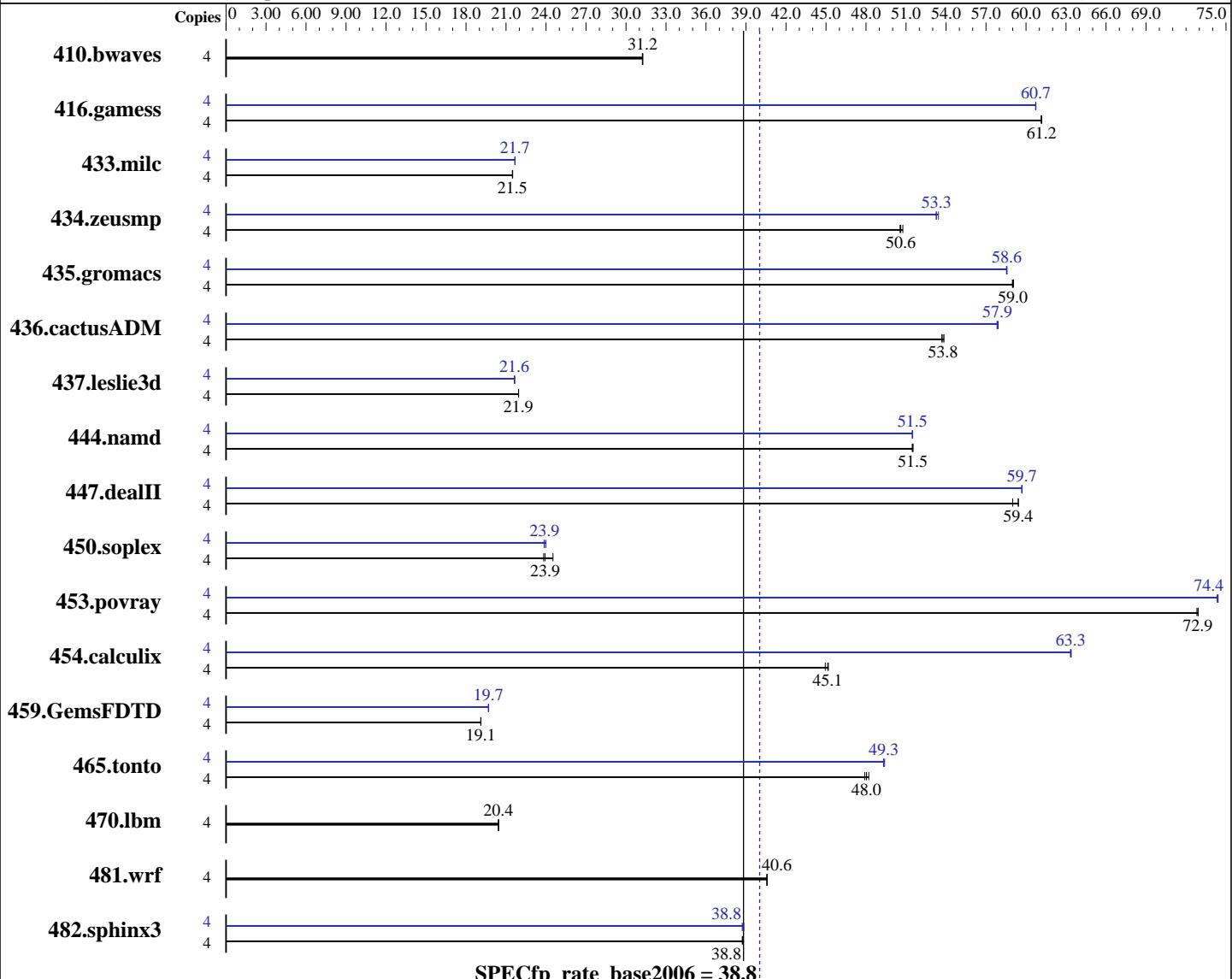
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Quad Q9300
CPU Characteristics: 2.50 GHz, 1333 FSB
CPU MHz: 2500
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: 6 MB I+D on chip per chip, 3 MB shared / 2 cores

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: No
File System: NTFS
System State: Default

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L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1GB 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1741	31.2	1740	31.2	1739	31.3	4	1741	31.2	1740	31.2	1739	31.3
416.gamess	4	1281	61.1	1280	61.2	1280	61.2	4	1290	60.7	1289	60.7	1290	60.7
433.milc	4	1709	21.5	1710	21.5	1708	21.5	4	1694	21.7	1694	21.7	1694	21.7
434.zeusmp	4	719	50.6	720	50.6	717	50.8	4	683	53.3	683	53.3	681	53.4
435.gromacs	4	484	59.1	484	59.0	484	59.0	4	488	58.6	488	58.6	488	58.5
436.cactusADM	4	888	53.8	889	53.8	890	53.7	4	827	57.8	826	57.9	825	57.9
437.leslie3d	4	1714	21.9	1714	21.9	1713	21.9	4	1736	21.7	1738	21.6	1738	21.6
444.namd	4	623	51.5	623	51.5	623	51.5	4	623	51.5	623	51.5	623	51.5
447.dealII	4	776	59.0	770	59.4	770	59.4	4	766	59.7	767	59.7	767	59.7
450.soplex	4	1400	23.8	1360	24.5	1394	23.9	4	1397	23.9	1398	23.9	1390	24.0
453.povray	4	292	72.9	292	72.9	292	72.8	4	286	74.4	286	74.4	286	74.3
454.calculix	4	734	44.9	730	45.2	731	45.1	4	521	63.3	521	63.4	521	63.3
459.GemsFDTD	4	2220	19.1	2220	19.1	2222	19.1	4	2157	19.7	2156	19.7	2155	19.7
465.tonto	4	817	48.2	822	47.9	819	48.0	4	798	49.3	797	49.4	798	49.3
470.lbm	4	2689	20.4	2689	20.4	2689	20.4	4	2689	20.4	2689	20.4	2689	20.4
481.wrf	4	1101	40.6	1101	40.6	1102	40.6	4	1101	40.6	1101	40.6	1102	40.6
482.sphinx3	4	2011	38.8	2014	38.7	2012	38.8	4	2008	38.8	2014	38.7	2011	38.8

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

The start command with the /affinity switch was used to bind processes to cores



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Base Compiler Invocation

C benchmarks:

`icl -Qvc8 -Qc99`

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 /F1000000000`

C++ benchmarks:

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

Fortran benchmarks:

`-fast /F1000000000`

Benchmarks using both Fortran and C:

`-fast /F1000000000`

Peak Compiler Invocation

C benchmarks:

`icl -Qvc8 -Qc99`

C++ benchmarks:

`icl -Qvc8`

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Peak Compiler Invocation (Continued)

Fortran benchmarks:

ifort

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 -Qunroll12 -Oa /F1000000000

470.lbm: basepeak = yes

482.sphinx3: -fast -Qunroll12 /F1000000000

C++ benchmarks:

444.namd: -fast -Oa -Qcxx_features /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE

447.dealII: -fast -Qunroll12 -Qprefetch -Qcxx_features /F1000000000
shlw32m.lib -link /FORCE:MULTIPLE

450.soplex: -fast -Qcxx_features /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE

453.povray: -fast -Qunroll14 -Qansi-alias -Qcxx_features /F1000000000
shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -fast -Qunroll12 -Ob0 -Qansi-alias -Qscalar-rep-
/F1000000000

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Peak Optimization Flags (Continued)

434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll10 -Qscalar-rep- /F1000000000

437.leslie3d: -fast -Qprefetch /F1000000000

459.GemsFDTD: -fast -Qunroll12 -Ob0 -Qprefetch /F1000000000

465.tonto: -fast -Qunroll14 -Qauto /F1000000000

Benchmarks using both Fortran and C:

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

436.cactusADM: -fast -Qunroll12 -Qprefetch /F1000000000

454.calculix: -fast -Qunroll-aggressive /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-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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