



SPEC® CFP2006 Result

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Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9550)

SPECfp®_rate2006 = 44.5

SPECfp_rate_base2006 = 42.6

CPU2006 license: 13

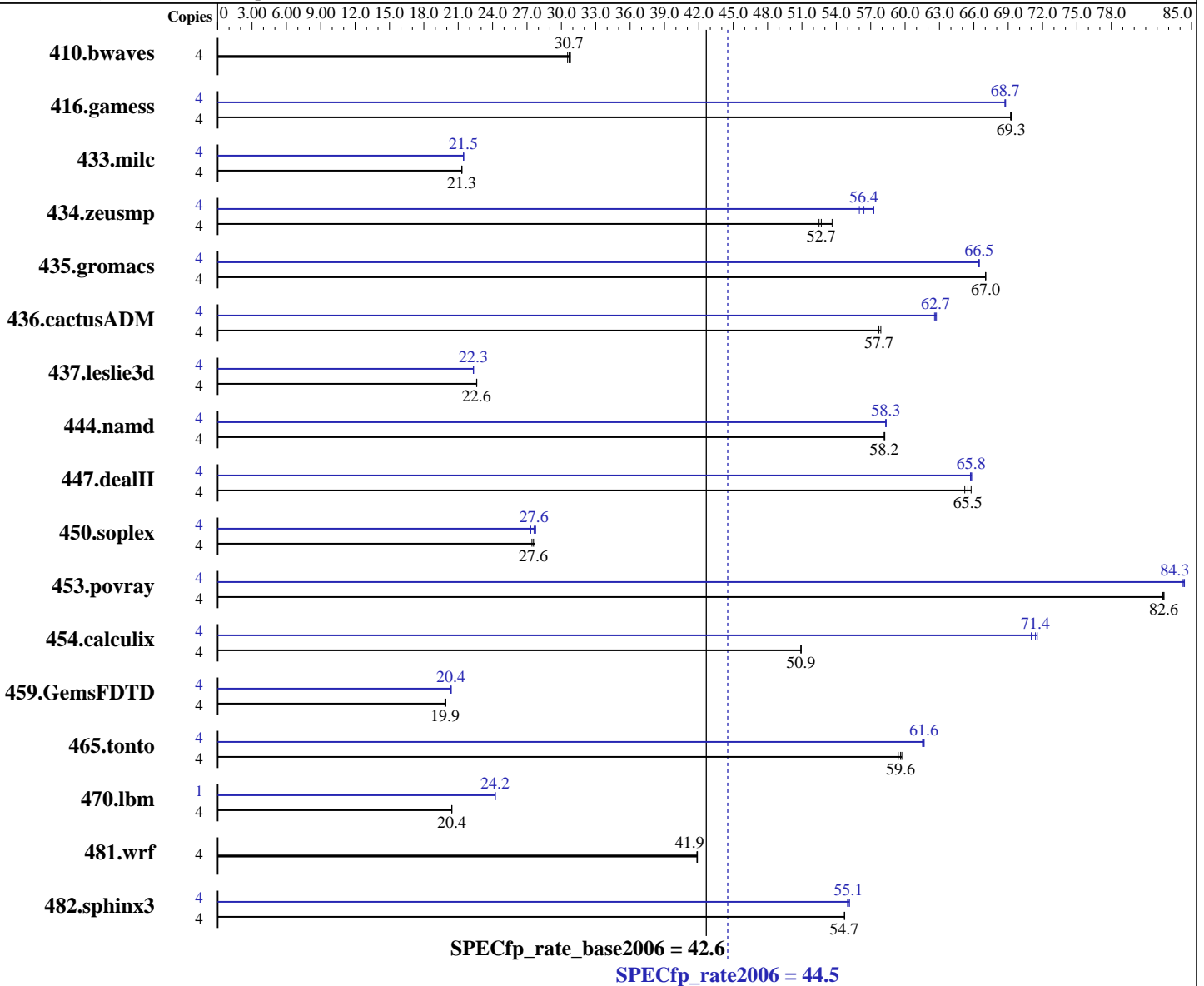
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Quad Q9550
 CPU Characteristics: 2.83 GHz, 1333 FSB
 CPU MHz: 2833
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

Continued on next page

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

Continued on next page



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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	1780	30.5	<u>1772</u>	<u>30.7</u>	1765	30.8	4	1780	30.5	<u>1772</u>	<u>30.7</u>	1765	30.8
416.gamess	4	1132	69.2	1131	69.3	<u>1131</u>	<u>69.3</u>	4	1140	68.7	1139	68.8	<u>1139</u>	<u>68.7</u>
433.milc	4	1722	21.3	<u>1723</u>	<u>21.3</u>	1723	21.3	4	1711	21.5	<u>1710</u>	<u>21.5</u>	1710	21.5
434.zeusmp	4	<u>691</u>	<u>52.7</u>	693	52.5	679	53.6	4	<u>645</u>	<u>56.4</u>	636	57.3	650	56.0
435.gromacs	4	<u>426</u>	<u>67.0</u>	426	67.0	426	67.0	4	430	66.5	430	66.4	<u>430</u>	<u>66.5</u>
436.cactusADM	4	829	57.7	<u>828</u>	<u>57.7</u>	826	57.9	4	764	62.6	<u>763</u>	<u>62.7</u>	762	62.7
437.leslie3d	4	<u>1663</u>	<u>22.6</u>	1662	22.6	1663	22.6	4	<u>1684</u>	<u>22.3</u>	1683	22.3	1685	22.3
444.namd	4	551	58.2	<u>551</u>	<u>58.2</u>	551	58.2	4	550	58.3	550	58.4	<u>550</u>	<u>58.3</u>
447.dealII	4	702	65.2	696	65.8	<u>699</u>	<u>65.5</u>	4	<u>696</u>	<u>65.8</u>	695	65.8	696	65.7
450.soplex	4	1216	27.4	1205	27.7	<u>1210</u>	<u>27.6</u>	4	1202	27.8	1221	27.3	<u>1208</u>	<u>27.6</u>
453.povray	4	258	82.6	258	82.5	<u>258</u>	<u>82.6</u>	4	<u>252</u>	<u>84.3</u>	253	84.2	252	84.4
454.calculix	4	648	50.9	<u>648</u>	<u>50.9</u>	648	50.9	4	461	71.5	<u>462</u>	<u>71.4</u>	465	71.0
459.GemsFDTD	4	2139	19.8	2131	19.9	<u>2136</u>	<u>19.9</u>	4	<u>2084</u>	<u>20.4</u>	2086	20.3	2081	20.4
465.tonto	4	659	59.7	<u>660</u>	<u>59.6</u>	663	59.4	4	<u>639</u>	<u>61.6</u>	640	61.5	638	61.7
470.lbm	4	2689	20.4	<u>2689</u>	<u>20.4</u>	2689	20.4	1	567	24.2	<u>567</u>	<u>24.2</u>	567	24.2
481.wrf	4	1067	41.9	1068	41.8	<u>1067</u>	<u>41.9</u>	4	1067	41.9	1068	41.8	<u>1067</u>	<u>41.9</u>
482.sphinx3	4	1424	54.7	1428	54.6	<u>1425</u>	<u>54.7</u>	4	<u>1416</u>	<u>55.1</u>	1414	55.2	1418	55.0

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 -Qunroll2 -Oa /F1000000000

470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000

482.sphinx3: -fast -Qunroll2 /F1000000000

C++ benchmarks:

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

447.dealII: -fast -Qunroll2 -Qprefetch -Qcxx_features /F1000000000
shlw32m.lib -link /FORCE:MULTIPLE

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

453.povray: -fast -Qunroll4 -Qansi-alias -Qcxx_features /F1000000000
shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep-
/F1000000000

Continued on next page



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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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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