



SPEC® CFP2006 Result

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Intel Corporation

SPECfp®_rate2006 = 52.0

Asus P5E3 Deluxe (Intel Core 2 Extreme QX9650)

SPECfp_rate_base2006 = 49.9

CPU2006 license: 13

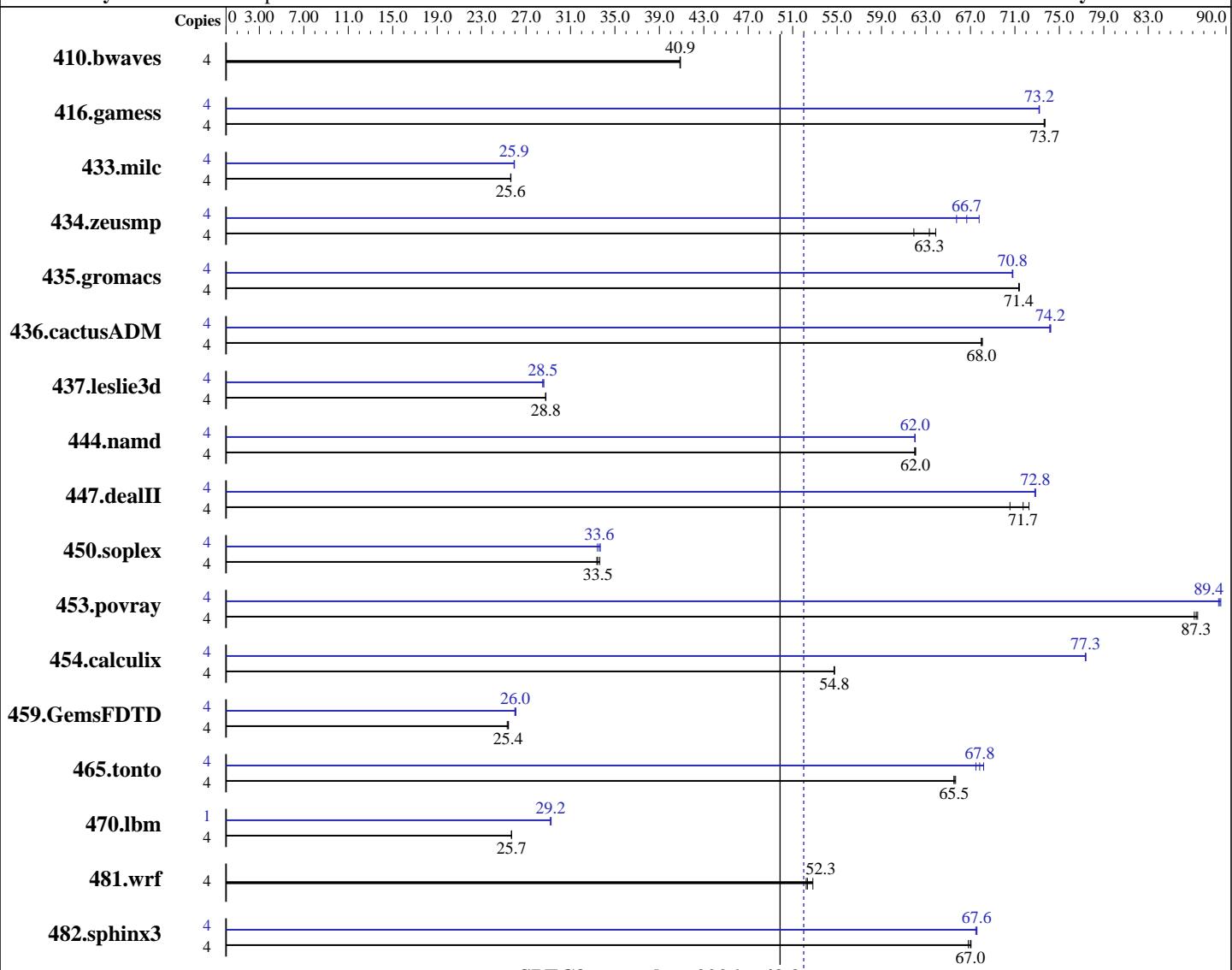
Test date: Nov-2007

Test sponsor: Intel Corporation

Hardware Availability: Nov-2007

Tested by: Intel Corporation

Software Availability: Nov-2007



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Hardware

CPU Name: Intel Core 2 Extreme QX9650
 CPU Characteristics: 3.00 GHz 1333 MHz FSB
 CPU MHz: 3000
 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

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Software

Operating System: Windows Vista64 Ultimate
 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	Base Pointers:	32-bit
Other Cache:	None	Peak Pointers:	32-bit
Memory:	4 GB (4x1GB Corsair TWIN3X2048-1333C9DHX DDR3-1333 CL9)	Other Software:	SmartHeap Library Version 8.1 from http://www.microquill.com/
Disk Subsystem:	Seagate 320GB NCQ SATA, 16MB cache, 7200 RPM		
Other Hardware:	None		

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1329	40.9	<u>1330</u>	<u>40.9</u>	1331	40.9	4	1329	40.9	<u>1330</u>	<u>40.9</u>	1331	40.9		
416.gamess	4	1063	73.7	<u>1063</u>	<u>73.7</u>	1064	73.6	4	<u>1070</u>	<u>73.2</u>	1070	73.2	1070	73.2		
433.milc	4	<u>1433</u>	<u>25.6</u>	1432	25.6	1434	25.6	4	<u>1416</u>	<u>25.9</u>	1416	25.9	1415	26.0		
434.zeusmp	4	<u>575</u>	<u>63.3</u>	588	61.9	570	63.9	4	<u>546</u>	<u>66.7</u>	537	67.8	554	65.7		
435.gromacs	4	400	71.3	400	71.4	<u>400</u>	<u>71.4</u>	4	<u>403</u>	<u>70.8</u>	404	70.8	403	70.8		
436.cactusADM	4	<u>703</u>	<u>68.0</u>	702	68.1	703	68.0	4	<u>644</u>	<u>74.2</u>	645	74.1	<u>644</u>	<u>74.2</u>		
437.leslie3d	4	1308	28.8	1306	28.8	<u>1306</u>	<u>28.8</u>	4	<u>1318</u>	<u>28.5</u>	1319	28.5	1314	28.6		
444.namd	4	517	62.1	<u>517</u>	<u>62.0</u>	518	62.0	4	517	62.0	<u>517</u>	<u>62.0</u>	517	62.0		
447.dealII	4	633	72.3	<u>638</u>	<u>71.7</u>	649	70.6	4	628	72.9	629	72.8	<u>628</u>	<u>72.8</u>		
450.soplex	4	992	33.6	1000	33.4	<u>997</u>	<u>33.5</u>	4	<u>993</u>	<u>33.6</u>	990	33.7	998	33.4		
453.povray	4	243	87.4	244	87.1	<u>244</u>	<u>87.3</u>	4	238	89.3	<u>238</u>	<u>89.4</u>	238	89.5		
454.calculix	4	603	54.7	603	54.8	<u>603</u>	<u>54.8</u>	4	427	77.3	426	77.4	<u>427</u>	<u>77.3</u>		
459.GemsFDTD	4	1677	25.3	<u>1671</u>	<u>25.4</u>	1669	25.4	4	<u>1631</u>	<u>26.0</u>	1633	26.0	1627	26.1		
465.tonto	4	<u>601</u>	<u>65.5</u>	601	65.5	599	65.7	4	<u>577</u>	<u>68.2</u>	583	67.5	<u>580</u>	<u>67.8</u>		
470.lbm	4	2138	25.7	2139	25.7	<u>2139</u>	<u>25.7</u>	1	<u>470</u>	<u>29.2</u>	471	29.2	470	29.3		
481.wrf	4	<u>854</u>	<u>52.3</u>	846	52.8	856	52.2	4	<u>854</u>	<u>52.3</u>	846	52.8	856	52.2		
482.sphinx3	4	<u>1164</u>	<u>67.0</u>	1163	67.1	1167	66.8	4	<u>1155</u>	<u>67.5</u>	1153	67.6	<u>1154</u>	<u>67.6</u>		

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 11/2007:

<http://www.asus.com/products.aspx?l1=3&l2=11&l3=572&l4=0&model=1872&modelmenu=1>

The system bus runs at 1333 MHz

System was configured with Asus EN8800GTX discrete graphics card

Binaries were built on Windows Vista32

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: -fast -Qunroll12 -Qscalar-rep- -Qprefetch /F1000000000

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-ia32-intel64-linux-flags.20090714.09.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.09.xml>

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

Tested with SPEC CPU2006 v1.0.

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