



SPEC® CFP2006 Result

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Intel Corporation

SPECfp®2006 = 22.3

Asus P5E3 Deluxe (Intel Core 2 Extreme QX9650)

SPECfp_base2006 = 21.4

CPU2006 license: 13

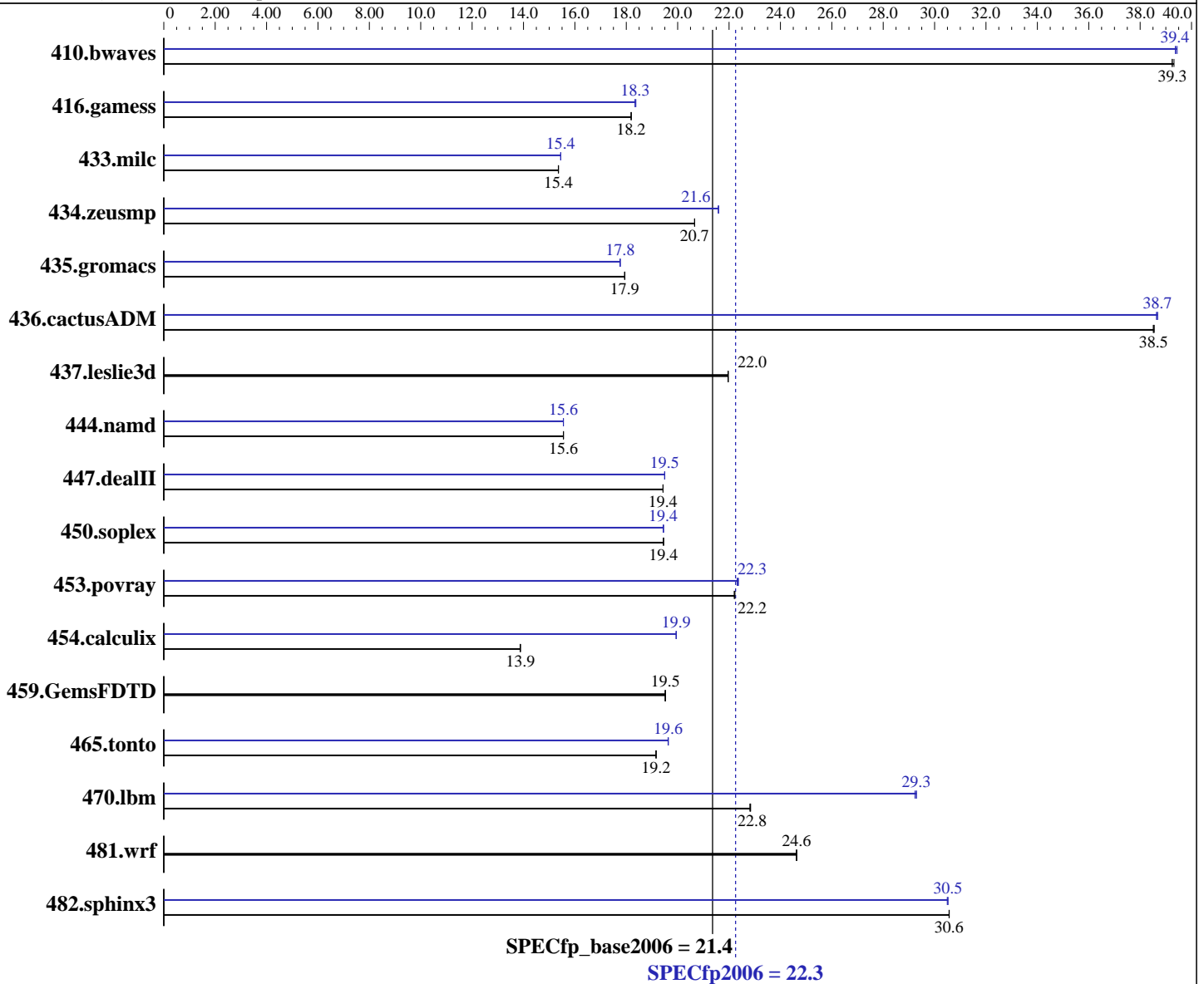
Test date: Nov-2007

Test sponsor: Intel Corporation

Hardware Availability: Nov-2007

Tested by: Intel Corporation

Software Availability: Nov-2007



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: Yes
 File System: NTFS
 System State: Default

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L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1GB Corsair TWIN3X2048-1333C9DHX DDR3-1333 CL9)
 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	346	39.3	346	39.2	346	39.3	345	39.4	345	39.4	345	39.4
416.gamess	1076	18.2	1077	18.2	1076	18.2	1067	18.3	1067	18.3	1066	18.4
433.milc	597	15.4	598	15.4	598	15.4	594	15.4	594	15.4	594	15.5
434.zeusmp	440	20.7	440	20.7	440	20.7	422	21.6	422	21.6	422	21.6
435.gromacs	398	17.9	398	17.9	398	17.9	402	17.8	402	17.8	402	17.8
436.cactusADM	310	38.5	310	38.5	310	38.5	309	38.7	309	38.6	309	38.7
437.leslie3d	428	22.0	428	22.0	428	22.0	428	22.0	428	22.0	428	22.0
444.namd	516	15.6	516	15.6	516	15.6	516	15.6	516	15.6	516	15.6
447.dealII	589	19.4	589	19.4	589	19.4	587	19.5	587	19.5	587	19.5
450.soplex	429	19.4	429	19.5	429	19.4	429	19.4	429	19.4	429	19.5
453.povray	240	22.2	239	22.2	240	22.2	238	22.3	238	22.4	238	22.3
454.calculix	594	13.9	594	13.9	595	13.9	414	19.9	414	19.9	414	19.9
459.GemsFDTD	543	19.5	544	19.5	543	19.5	543	19.5	544	19.5	543	19.5
465.tonto	513	19.2	514	19.2	514	19.2	501	19.6	501	19.6	501	19.6
470.lbm	602	22.8	602	22.8	602	22.8	469	29.3	469	29.3	470	29.2
481.wrf	454	24.6	453	24.6	453	24.6	454	24.6	453	24.6	453	24.6
482.sphinx3	638	30.6	638	30.6	638	30.6	639	30.5	639	30.5	639	30.5

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

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

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