SPEC® CFP2006 Result
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ASUSTeK Computer Inc.
(Test Sponsor: Intel Corporation)

Asus P6T Deluxe (Intel Core i7-920)

$SPECfp^®2006 =$ 29.3
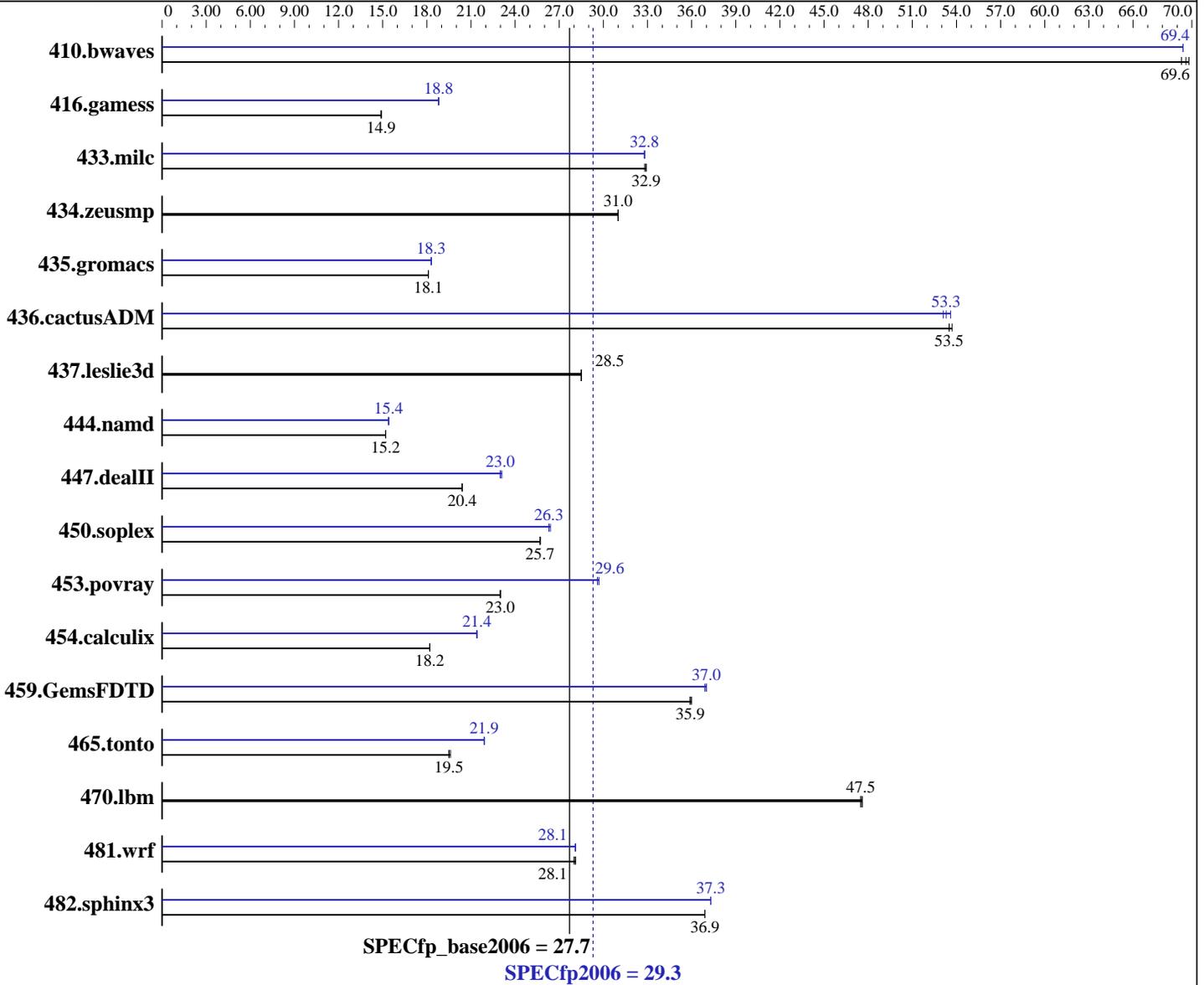
$SPECfp\_base2006 =$ 27.7

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Oct-2008
Hardware Availability: Nov-2008
Software Availability: Nov-2008

Benchmark	Value
410.bwaves	69.4 / 69.6
416.gamess	18.8 / 14.9
433.milc	32.8 / 32.9
434.zeusmp	31.0
435.gromacs	18.3 / 18.1
436.cactusADM	53.3 / 53.5
437.leslie3d	28.5
444.namd	15.4 / 15.2
447.dealII	23.0 / 20.4
450.soplex	26.3 / 25.7
453.povray	29.6 / 23.0
454.calculix	21.4 / 18.2
459.GemsFDTD	37.0 / 35.9
465.tonto	21.9 / 19.5
470.lbm	47.5
481.wrf	28.1 / 28.1
482.sphinx3	37.3 / 36.9

SPECfp_base2006 = 27.7
SPECfp2006 = 29.3

Hardware

CPU Name: Intel Core i7-920
CPU Characteristics: Intel Turbo Boost Technology up to 2.93 GHz
CPU MHz: 2667
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 256 KB I+D on chip per core
Continued on next page

Software

Operating System: Windows Vista Ultimate w/ SP1 (64-bit)
Compiler: Intel C++ Compiler Professional 11.0 for IA32
Build 20080930 Package ID: w_cproc_p_11.0.054
Intel Visual Fortran Compiler Professional 11.0 for IA32
Build 20080930 Package ID: w_cprof_p_11.0.054
Microsoft Visual Studio 2008 (for libraries)
Auto Parallel: Yes
File System: NTFS
Continued on next page

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L3 Cache:	8 MB I+D on chip per chip	System State:	Default
Other Cache:	None	Base Pointers:	32-bit
Memory:	12 GB (6 x 2GB Samsung M378B5673DZ1-CF8 DDR3-1066 CL7)	Peak Pointers:	32-bit
Disk Subsystem:	80 GB Intel X-25M SATA Solid-State Drive	Other Software:	SmartHeap Library Version 8.1 from http://www.microquill.com/
Other Hardware:	None		

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	196	69.3	**195**	**69.6**	195	69.8	196	69.4	196	69.4	**196**	**69.4**
416.gamess	1314	14.9	**1312**	**14.9**	1311	14.9	1043	18.8	**1043**	**18.8**	1041	18.8
433.milc	279	32.9	**279**	**32.9**	280	32.8	280	32.8	280	32.8	**280**	**32.8**
434.zeusmp	**294**	**31.0**	294	31.0	293	31.0	**294**	**31.0**	294	31.0	293	31.0
435.gromacs	394	18.1	395	18.1	**395**	**18.1**	391	18.3	**391**	**18.3**	391	18.3
436.cactusADM	223	53.5	223	53.7	**223**	**53.5**	225	53.1	**224**	**53.3**	223	53.6
437.leslie3d	329	28.5	**330**	**28.5**	330	28.5	329	28.5	**330**	**28.5**	330	28.5
444.namd	526	15.2	**526**	**15.2**	526	15.2	**522**	**15.4**	522	15.4	522	15.4
447.dealII	560	20.4	**560**	**20.4**	560	20.4	496	23.1	497	23.0	**497**	**23.0**
450.soplex	325	25.7	**324**	**25.7**	324	25.7	316	26.4	317	26.3	**317**	**26.3**
453.povray	231	23.0	231	23.0	**231**	**23.0**	179	29.7	180	29.6	**180**	**29.6**
454.calculix	**453**	**18.2**	452	18.2	453	18.2	386	21.4	**386**	**21.4**	386	21.4
459.GemsFDTD	295	36.0	**296**	**35.9**	296	35.9	287	37.0	287	36.9	**287**	**37.0**
465.tonto	503	19.6	**503**	**19.5**	504	19.5	450	21.9	450	21.9	**450**	**21.9**
470.lbm	**289**	**47.5**	289	47.5	289	47.6	**289**	**47.5**	289	47.5	289	47.6
481.wrf	399	28.0	**398**	**28.1**	398	28.1	397	28.1	**398**	**28.1**	398	28.1
482.sphinx3	528	36.9	**528**	**36.9**	528	36.9	522	37.3	522	37.3	**522**	**37.3**

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,
PC Power and Cooling 1200W power supply
System was configured with nVidia GTX 280 discrete graphics card
Binaries were built on Windows Vista Ultimate (32-bit)
OMP_NUM_THREADS set to number of logical processors as seen by the OS
KMP_AFFINITY set to physical,0
```

Base Compiler Invocation

C benchmarks:
```
icl -Qvc9 -Qc99
```

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Base Compiler Invocation (Continued)

C++ benchmarks:
    icl -Qvc9

Fortran benchmarks:
    ifort

Benchmarks using both Fortran and C:
    icl -Qvc9 -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:
    -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qparallel -Qopt-prefetch
    /F1000000000

C++ benchmarks:
    -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qparallel -Qopt-prefetch
    -Qcxx-features /F1000000000 shlw32m.lib
             -link /FORCE:MULTIPLE

Fortran benchmarks:
    -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qparallel -Qopt-prefetch
    /F1000000000

Benchmarks using both Fortran and C:
    -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qparallel -Qopt-prefetch
    /F1000000000

Peak Compiler Invocation

C benchmarks:
    icl -Qvc9 -Qc99

C++ benchmarks:
    icl -Qvc9

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Peak Compiler Invocation (Continued)

Fortran benchmarks:
```
ifort
```

Benchmarks using both Fortran and C:
```
icl -Qvc9 -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: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
              -Qipo -O3 -Qprec-div- -Oa /F1000000000

     470.lbm: basepeak = yes

  482.sphinx3: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 /F1000000000
```

C++ benchmarks:

```
     444.namd: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
              -Qipo -O3 -Qprec-div- -Oa /F1000000000 shlw32m.lib
                      -link /FORCE:MULTIPLE

    447.dealII: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
              -Qipo -O3 -Qprec-div- -Qunroll2 -Qopt-prefetch
              -Qansi-alias -Qscalar-rep- /F1000000000 shlw32m.lib
                      -link /FORCE:MULTIPLE

   450.soplex: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
              -Qipo -O3 -Qprec-div- /F1000000000 shlw32m.lib
                      -link /FORCE:MULTIPLE

   453.povray: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
              -Qipo -O3 -Qprec-div- -Qunroll4 -Qansi-alias /F1000000000
              shlw32m.lib               -link /FORCE:MULTIPLE
```

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Peak Optimization Flags (Continued)

Fortran benchmarks:

```
410.bwaves: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
            /F1000000000

416.gamess: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
            -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qansi-alias
            -Qscalar-rep- /F1000000000

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
              -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qopt-prefetch
              -Qparallel /F1000000000

465.tonto: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
           -Qipo -O3 -Qprec-div- -Qunroll4 -Qauto /F1000000000
```

Benchmarks using both Fortran and C:

```
435.gromacs: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
             -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

436.cactusADM: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
               -Qipo -O3 -Qprec-div- -Qunroll2 -Qopt-prefetch -Qparallel
               /F1000000000

454.calculix: -QxSSE4.2 -Qipo -O3 -Qprec-div- /F1000000000

481.wrf: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
         /F1000000000
```

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090713.html
http://www.spec.org/cpu2006/flags/Intel-Win32-Platform.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090713.xml
http://www.spec.org/cpu2006/flags/Intel-Win32-Platform.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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