



# SPEC® CFP2006 Result

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ASUSTeK Computer Inc.  
(Test Sponsor: Intel Corporation)

SPECfp®2006 = 32.4

Asus P6T Deluxe (Intel Core i7-950)

SPECfp\_base2006 = 30.6

CPU2006 license: 13

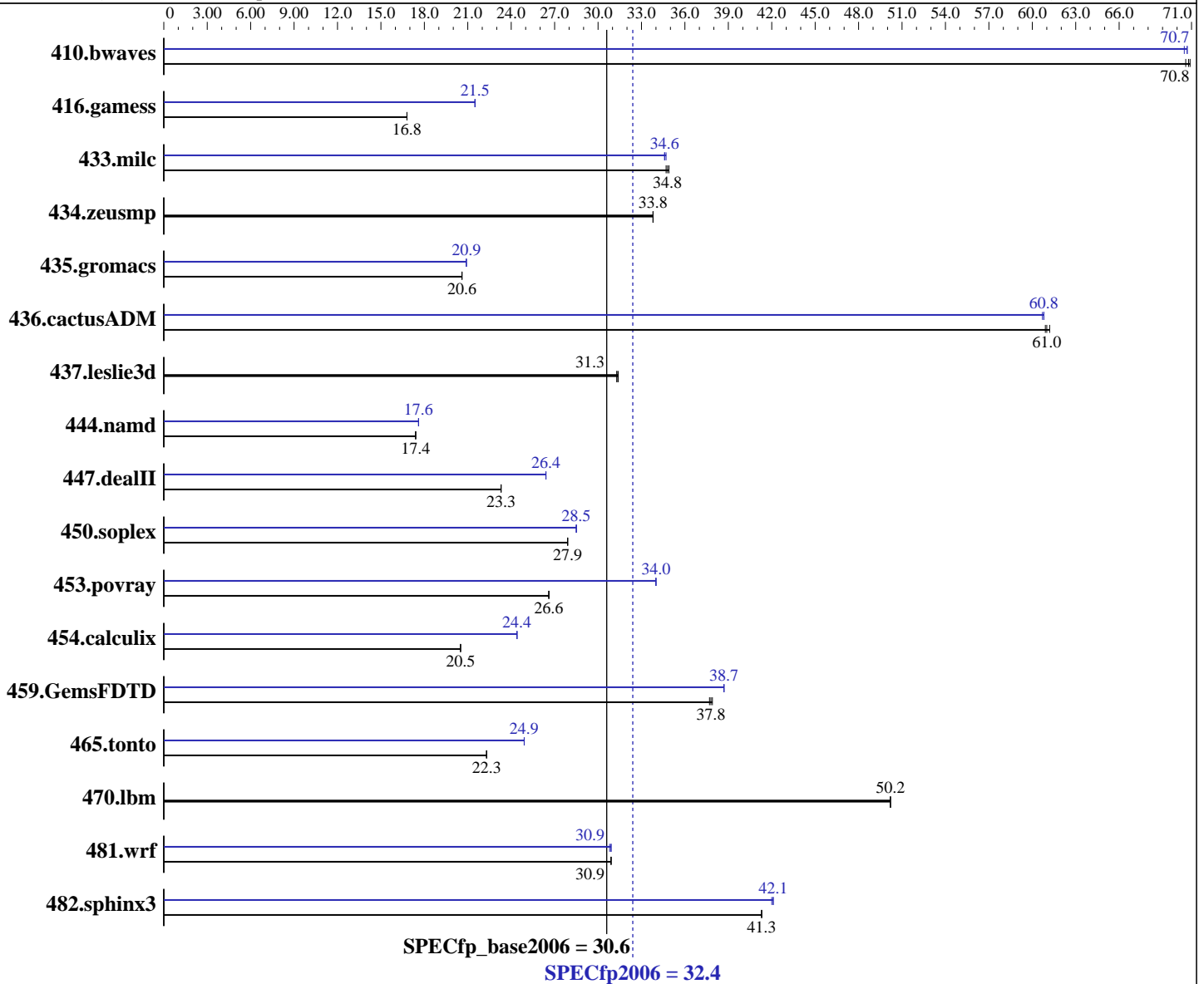
Test date: Oct-2008

Test sponsor: Intel Corporation

Hardware Availability: Jun-2009

Tested by: Intel Corporation

Software Availability: Nov-2008



## Hardware

CPU Name: Intel Core i7-950  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.33 GHz  
 CPU MHz: 3066  
 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

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## 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

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L3 Cache: 8 MB I+D on chip per chip  
Other Cache: None  
Memory: 12 GB (6 x 2GB Samsung M378B5673DZ1-CF8 DDR3-1066 CL7)  
Disk Subsystem: 80 GB Intel X-25M SATA Solid-State Drive  
Other Hardware: None

System State: Default  
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	193	70.6	192	70.9	<u>192</u>	<u>70.8</u>	192	70.7	<u>192</u>	<u>70.7</u>	193	70.5
416.gamess	1165	16.8	<u>1166</u>	<u>16.8</u>	1168	16.8	<u>909</u>	<u>21.5</u>	909	21.5	909	21.5
433.milc	265	34.7	263	34.9	<u>264</u>	<u>34.8</u>	<u>265</u>	<u>34.6</u>	265	34.7	265	34.6
434.zeusmp	269	33.8	270	33.8	<u>269</u>	<u>33.8</u>	269	33.8	270	33.8	<u>269</u>	<u>33.8</u>
435.gromacs	346	20.6	346	20.6	<u>346</u>	<u>20.6</u>	342	20.9	342	20.9	<u>342</u>	<u>20.9</u>
436.cactusADM	195	61.2	196	60.9	<u>196</u>	<u>61.0</u>	197	60.8	197	60.7	<u>197</u>	<u>60.8</u>
437.leslie3d	<u>300</u>	<u>31.3</u>	300	31.4	300	31.3	<u>300</u>	<u>31.3</u>	300	31.4	300	31.3
444.namd	460	17.4	<u>460</u>	<u>17.4</u>	460	17.4	457	17.6	<u>457</u>	<u>17.6</u>	457	17.6
447.dealII	490	23.3	<u>490</u>	<u>23.3</u>	491	23.3	434	26.4	<u>434</u>	<u>26.4</u>	434	26.4
450.soplex	299	27.9	<u>299</u>	<u>27.9</u>	299	27.9	293	28.5	293	28.5	<u>293</u>	<u>28.5</u>
453.povray	200	26.6	200	26.6	<u>200</u>	<u>26.6</u>	<u>157</u>	<u>34.0</u>	156	34.0	157	34.0
454.calculix	402	20.5	403	20.5	<u>403</u>	<u>20.5</u>	339	24.4	339	24.4	<u>339</u>	<u>24.4</u>
459.GemsFDTD	<u>281</u>	<u>37.8</u>	281	37.7	280	37.9	274	38.7	274	38.7	<u>274</u>	<u>38.7</u>
465.tonto	442	22.3	<u>442</u>	<u>22.3</u>	442	22.3	395	24.9	<u>395</u>	<u>24.9</u>	395	24.9
470.lbm	274	50.2	274	50.2	<u>274</u>	<u>50.2</u>	274	50.2	274	50.2	<u>274</u>	<u>50.2</u>
481.wrf	362	30.9	<u>362</u>	<u>30.9</u>	362	30.9	361	30.9	362	30.8	<u>362</u>	<u>30.9</u>
482.sphinx3	472	41.3	472	41.3	<u>472</u>	<u>41.3</u>	463	42.1	<u>463</u>	<u>42.1</u>	464	42.0

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,  
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 file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090710.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090710.xml>



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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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