



# SPEC® CFP2006 Result

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ASUS Computer International

(Test Sponsor: Intel Corporation)

SPECfp®2006 =

19.3

ASUS P5K3 motherboard (Intel Core 2 Duo E6850)

SPECfp\_base2006 =

18.7

CPU2006 license: 13

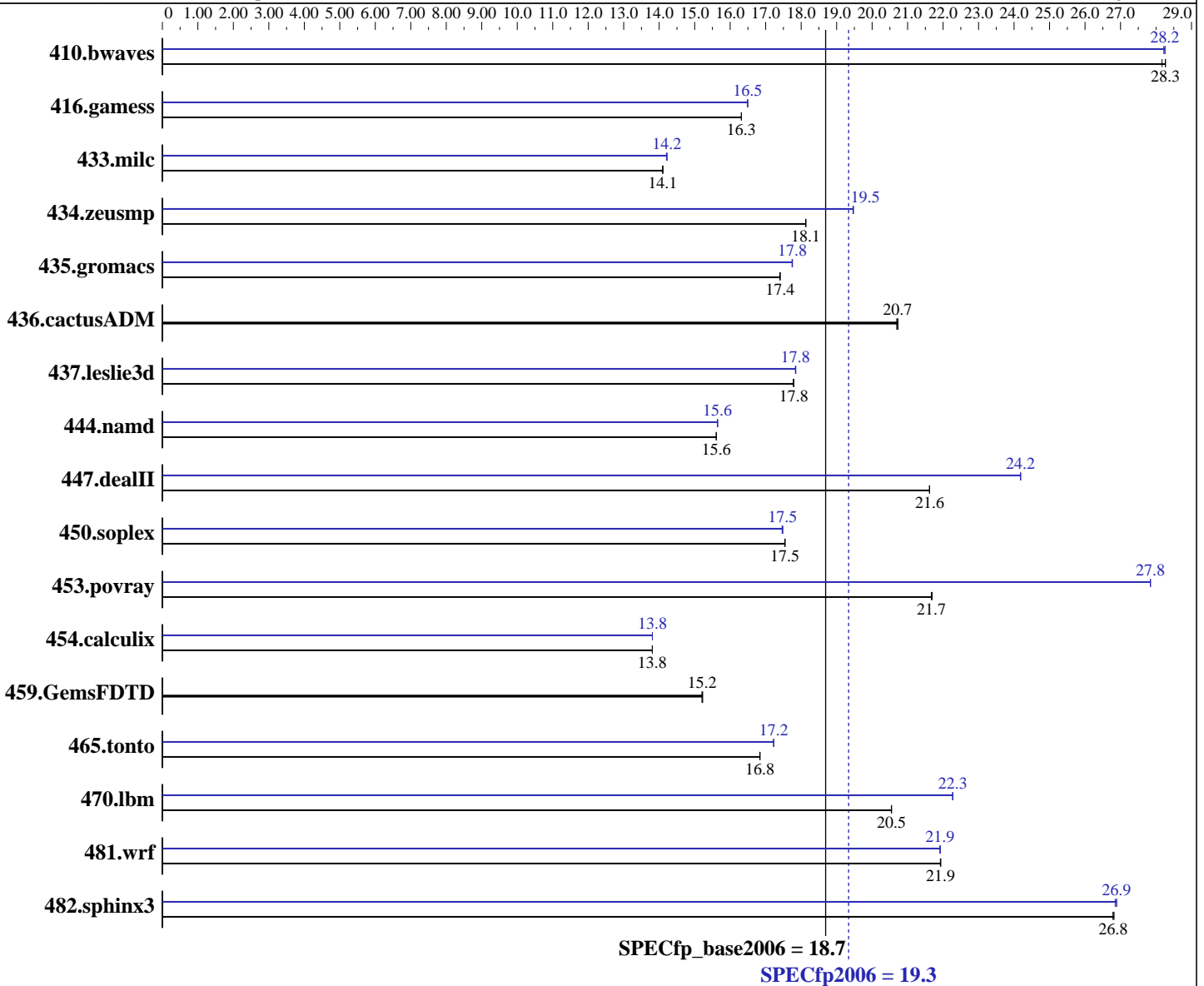
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2007

Hardware Availability: Jul-2007

Software Availability: Aug-2006



## Hardware

CPU Name: Intel Core 2 Duo E6850  
 CPU Characteristics: 3.00 GHz, 1333 MHz bus  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip

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## Software

Operating System: Windows Vista32 Ultimate  
 Compiler: Intel C++ Compiler for IA32 version 10.0  
 Build 20070426 Package ID: W\_CC\_P\_10.0.025  
 Intel Fortran Compiler for IA32 version 10.0  
 Build 20070426 Package ID: W\_FC\_P\_10.0.025  
 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default

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L3 Cache: None  
 Other Cache: None  
 Memory: 2 GB (2x1GB ELPIDA PC3-8500U-7-00-BP DDR3-1066 7-7-7-20)  
 Disk Subsystem: Seagate ST3320620AS 320GB Barracuda 7200.10 NCQ SATA II  
 Other Hardware: None

Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: SmartHeap Library Version 8.0 from <http://www.microquill.com/>

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	482	28.2	481	28.3	<b>481</b>	<b>28.3</b>	<b>481</b>	<b>28.2</b>	482	28.2	481	28.3
416.gamess	1200	16.3	1200	16.3	<b>1200</b>	<b>16.3</b>	1187	16.5	<b>1187</b>	<b>16.5</b>	1187	16.5
433.milc	651	14.1	<b>651</b>	<b>14.1</b>	651	14.1	646	14.2	<b>646</b>	<b>14.2</b>	646	14.2
434.zeusmp	<b>502</b>	<b>18.1</b>	502	18.1	502	18.1	<b>467</b>	<b>19.5</b>	468	19.5	467	19.5
435.gromacs	410	17.4	410	17.4	<b>410</b>	<b>17.4</b>	<b>402</b>	<b>17.8</b>	402	17.7	402	17.8
436.cactusADM	<b>577</b>	<b>20.7</b>	578	20.7	576	20.7	<b>577</b>	<b>20.7</b>	578	20.7	576	20.7
437.leslie3d	529	17.8	528	17.8	<b>528</b>	<b>17.8</b>	<b>527</b>	<b>17.8</b>	527	17.8	527	17.9
444.namd	<b>514</b>	<b>15.6</b>	514	15.6	514	15.6	513	15.6	<b>513</b>	<b>15.6</b>	513	15.6
447.dealII	<b>529</b>	<b>21.6</b>	529	21.6	529	21.6	473	24.2	473	24.2	<b>473</b>	<b>24.2</b>
450.soplex	475	17.5	<b>475</b>	<b>17.5</b>	475	17.5	478	17.5	<b>477</b>	<b>17.5</b>	477	17.5
453.povray	245	21.7	<b>245</b>	<b>21.7</b>	245	21.7	<b>191</b>	<b>27.8</b>	191	27.8	191	27.8
454.calculix	598	13.8	<b>598</b>	<b>13.8</b>	598	13.8	598	13.8	<b>597</b>	<b>13.8</b>	597	13.8
459.GemsFDTD	698	15.2	<b>698</b>	<b>15.2</b>	697	15.2	698	15.2	<b>698</b>	<b>15.2</b>	697	15.2
465.tonto	584	16.8	584	16.8	<b>584</b>	<b>16.8</b>	<b>571</b>	<b>17.2</b>	571	17.2	571	17.2
470.lbm	<b>669</b>	<b>20.5</b>	669	20.5	669	20.5	617	22.3	<b>617</b>	<b>22.3</b>	617	22.3
481.wrf	<b>509</b>	<b>21.9</b>	510	21.9	509	21.9	510	21.9	<b>510</b>	<b>21.9</b>	510	21.9
482.sphinx3	727	26.8	728	26.8	<b>727</b>	<b>26.8</b>	<b>725</b>	<b>26.9</b>	726	26.8	725	26.9

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 7/2007:  
<http://usa.asus.com/products.aspx?l1=3&l2=11&l3=534&l4=0&model=1645&modelmenu=1>  
 The system bus runs at 1333 MHz  
 System has a discrete gfx card - Asus EN8800GTX/HTDP/768M w/ nVidia 8800GTX  
 Binaries were built on Windows XP Professional SP2 with 4GB of RAM and /3GB boot switch

## Base Compiler Invocation

C benchmarks:  
 icl -Qvc7.1 -Qc99

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## Base Compiler Invocation (Continued)

C++ benchmarks:

icl -Qvc7.1

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc7.1 -Qc99 ifort

## Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore  
444.namd: -TP  
447.dealII: -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
-DBOOST\_NO\_INTRINSIC\_WCHAR\_T  
453.povray: -DSPEC\_CPU\_WINDOWS\_ICL  
454.calculix: -DSPEC\_CPU\_NOZMODIFIER -Qlowercase  
481.wrf: -DSPEC\_CPU\_WINDOWS\_ICL

## Base Optimization Flags

C benchmarks:

-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

Fortran benchmarks:

-fast /F950000000

Benchmarks using both Fortran and C:

-fast /F950000000

## Peak Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

Fortran benchmarks:

ifort

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## Peak Compiler Invocation (Continued)

Benchmarks using both Fortran and C:

icl -Qvc7.1 -Qc99 ifort

## Peak Portability Flags

436.cactusADM: -Qlowercase /assume:underscore  
 444.namd: -TP  
 447.dealII: -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
 -DBOOST\_NO\_INTRINSIC\_WCHAR\_T  
 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: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2 -Oa  
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

470.lbm: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qscalar-rep- -Qprefetch /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

482.sphinx3: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

444.namd: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Oa  
-Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

447.dealII: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qprefetch  
-Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

450.soplex: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qcxx\_features  
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

453.povray: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

Fortran benchmarks:

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## Peak Optimization Flags (Continued)

410.bwaves: -fast /F950000000

416.gamess: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2 -Ob0  
-Qansi-alias -Qscalar-rep- /F950000000

434.zeusmp: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxT -O2 -Qprec\_div-  
-Qunroll10 -Qscalar-rep- /F950000000

437.leslie3d: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F950000000

459.GemsFDTD: basepeak = yes

465.tonto: Same as 437.leslie3d

Benchmarks using both Fortran and C:

435.gromacs: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Oa  
/F950000000

436.cactusADM: basepeak = yes

454.calculix: -fast /F950000000

481.wrf: Same as 454.calculix

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.20090714.42.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.20090714.42.xml>

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

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