



# SPEC® CFP2006 Result

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ASUS Computer International

(Test Sponsor: Intel Corporation)

SPECfp®\_rate2006 = 30.5

ASUS P5K3 motherboard (Intel Core 2 Duo E6850)

SPECfp\_rate\_base2006 = 29.7

CPU2006 license: 13

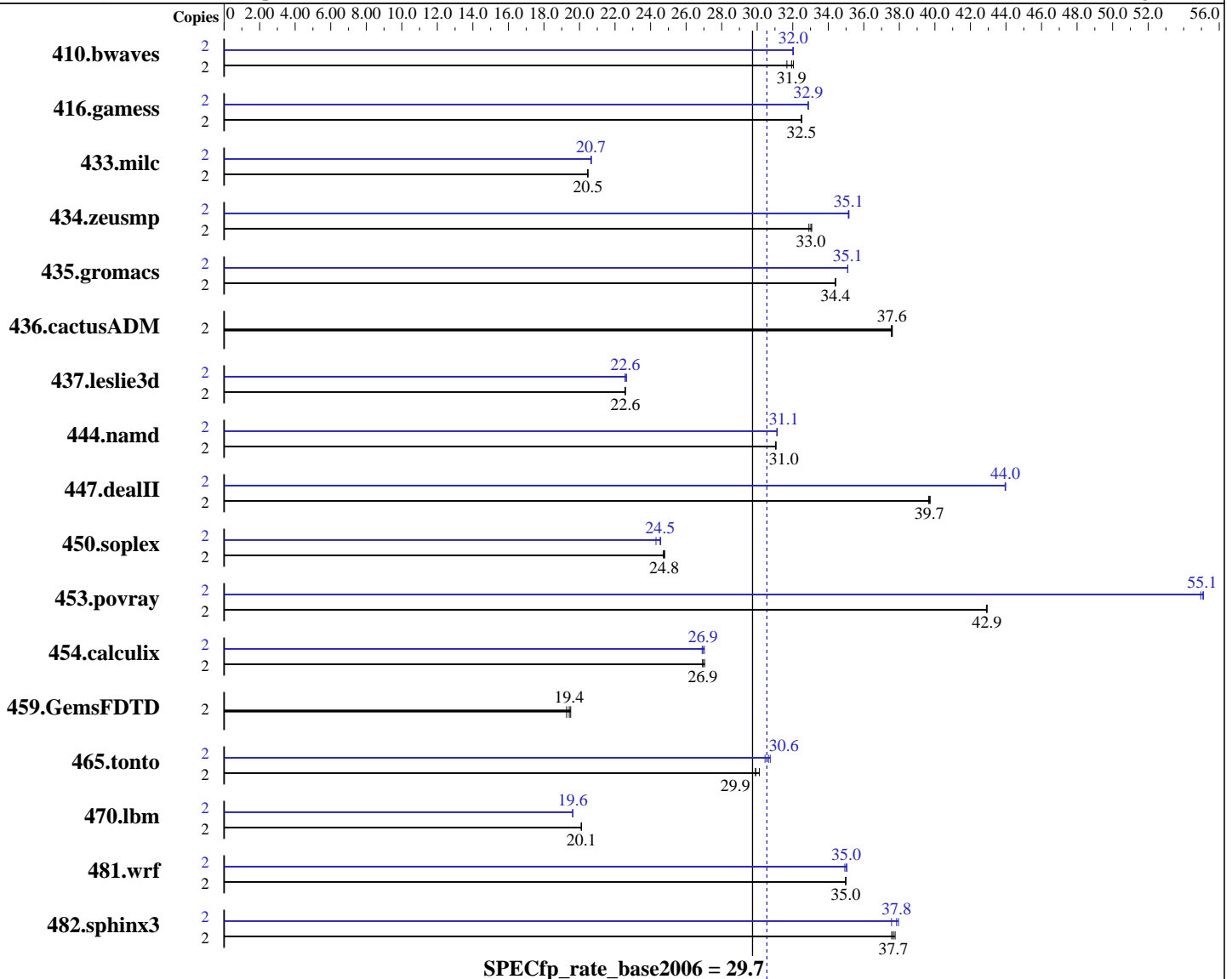
Test sponsor: Intel Corporation

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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	858	31.7	<b>851</b>	<b>31.9</b>	848	32.0	2	848	32.0	849	32.0	<b>849</b>	<b>32.0</b>
416.gamess	2	1204	32.5	<b>1206</b>	<b>32.5</b>	1206	32.5	2	<b>1191</b>	<b>32.9</b>	1192	32.9	1191	32.9
433.milc	2	<b>897</b>	<b>20.5</b>	897	20.5	898	20.5	2	<b>889</b>	<b>20.7</b>	888	20.7	889	20.6
434.zeusmp	2	550	33.1	553	32.9	<b>551</b>	<b>33.0</b>	2	518	35.1	<b>518</b>	<b>35.1</b>	518	35.2
435.gromacs	2	415	34.4	<b>415</b>	<b>34.4</b>	415	34.4	2	407	35.1	407	35.1	<b>407</b>	<b>35.1</b>
436.cactusADM	2	636	37.6	636	37.6	<b>636</b>	<b>37.6</b>	2	636	37.6	636	37.6	<b>636</b>	<b>37.6</b>
437.leslie3d	2	833	22.6	833	22.6	<b>833</b>	<b>22.6</b>	2	830	22.6	833	22.6	<b>832</b>	<b>22.6</b>
444.namd	2	<b>517</b>	<b>31.0</b>	517	31.1	517	31.0	2	<b>516</b>	<b>31.1</b>	515	31.1	516	31.1
447.dealII	2	577	39.7	<b>576</b>	<b>39.7</b>	576	39.7	2	520	44.0	521	44.0	<b>520</b>	<b>44.0</b>
450.soplex	2	675	24.7	673	24.8	<b>674</b>	<b>24.8</b>	2	679	24.6	686	24.3	<b>680</b>	<b>24.5</b>
453.povray	2	248	42.9	<b>248</b>	<b>42.9</b>	248	42.9	2	<b>193</b>	<b>55.1</b>	193	55.1	194	55.0
454.calculix	2	<b>613</b>	<b>26.9</b>	610	27.0	613	26.9	2	610	27.0	613	26.9	<b>612</b>	<b>26.9</b>
459.GemsFDTD	2	1088	19.5	<b>1092</b>	<b>19.4</b>	1101	19.3	2	1088	19.5	<b>1092</b>	<b>19.4</b>	1101	19.3
465.tonto	2	658	29.9	653	30.1	<b>658</b>	<b>29.9</b>	2	640	30.7	646	30.4	<b>642</b>	<b>30.6</b>
470.lbm	2	<b>1367</b>	<b>20.1</b>	1367	20.1	1367	20.1	2	1401	19.6	<b>1401</b>	<b>19.6</b>	1400	19.6
481.wrf	2	<b>639</b>	<b>35.0</b>	639	35.0	639	35.0	2	640	34.9	<b>638</b>	<b>35.0</b>	637	35.0
482.sphinx3	2	<b>1035</b>	<b>37.7</b>	1032	37.8	1038	37.6	2	1027	38.0	1038	37.6	<b>1030</b>	<b>37.8</b>

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  
 The start command with the /affinity switch was used to bind processes to cores



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## Base Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

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

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## Peak Compiler Invocation (Continued)

Fortran benchmarks:  
ifort

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

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## Peak Optimization Flags (Continued)

Fortran benchmarks:

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 questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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