



# SPEC® CFP2006 Result

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## Intel Corporation

SPECfp®\_rate2006 = 25.5

Intel DQ965GF motherboard (Intel Core 2 Duo E6700)

SPECfp\_rate\_base2006 = 24.8

CPU2006 license: 13

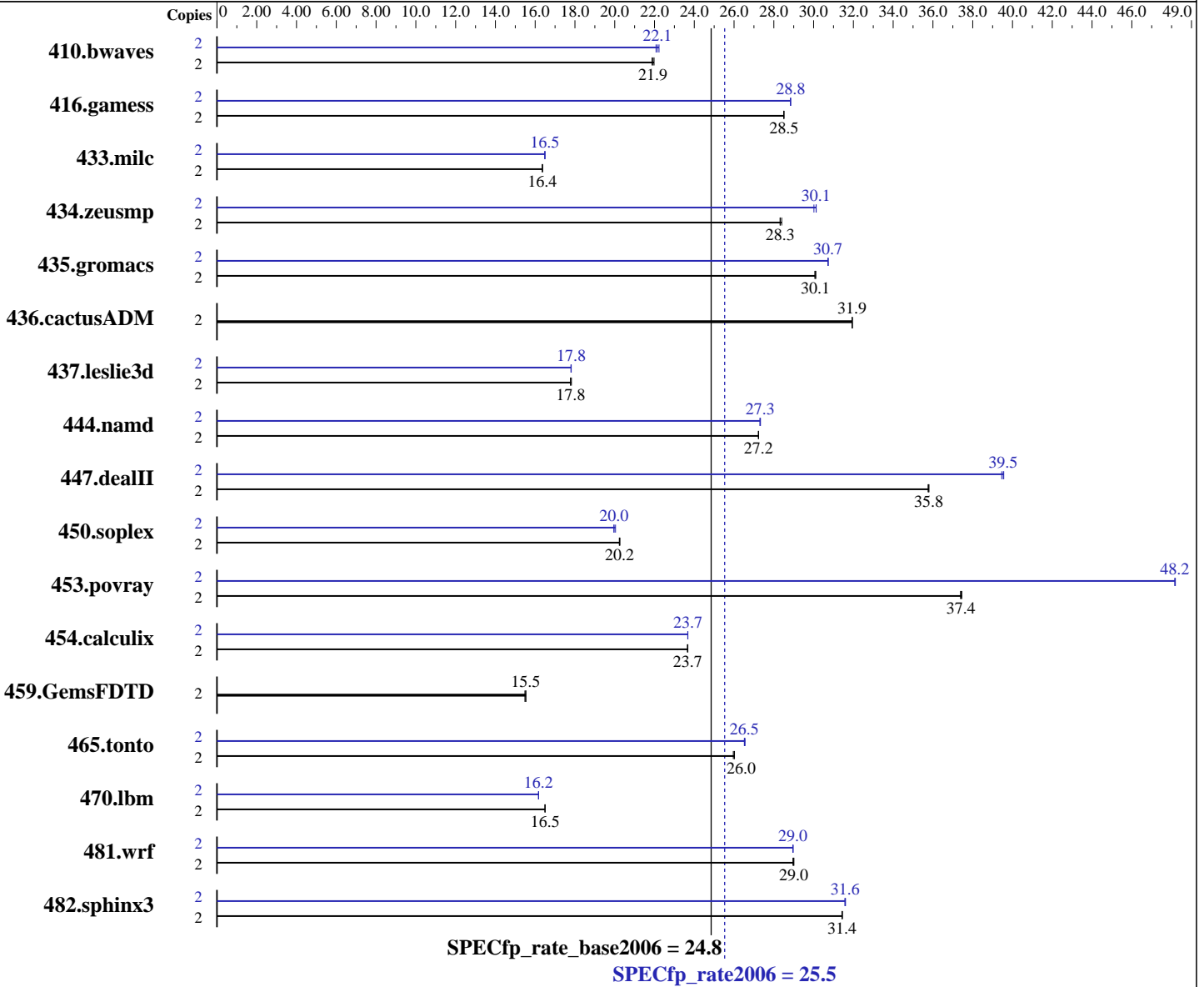
Test date: Jun-2007

Test sponsor: Intel Corporation

Hardware Availability: Aug-2006

Tested by: Intel Corporation

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Core 2 Duo E6700  
 CPU Characteristics: 2.67 GHz, 1066 MHz bus  
 CPU MHz: 2667  
 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 (2 1GB Micron MT16HTF12864AY-80ED4 DDR2 800, CL5)  
 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	<b>1240</b>	<b>21.9</b>	1237	22.0	1242	21.9	2	1223	22.2	<b>1227</b>	<b>22.1</b>	1231	22.1
416.gamess	2	1374	28.5	<b>1374</b>	<b>28.5</b>	1374	28.5	2	1358	28.8	1358	28.8	<b>1358</b>	<b>28.8</b>
433.milc	2	1122	16.4	1122	16.4	<b>1122</b>	<b>16.4</b>	2	1113	16.5	<b>1113</b>	<b>16.5</b>	1114	16.5
434.zeusmp	2	641	28.4	<b>643</b>	<b>28.3</b>	643	28.3	2	<b>604</b>	<b>30.1</b>	604	30.1	606	30.0
435.gromacs	2	475	30.1	474	30.1	<b>475</b>	<b>30.1</b>	2	465	30.7	465	30.7	<b>465</b>	<b>30.7</b>
436.cactusADM	2	<b>748</b>	<b>31.9</b>	748	31.9	748	32.0	2	<b>748</b>	<b>31.9</b>	748	31.9	748	32.0
437.leslie3d	2	<b>1057</b>	<b>17.8</b>	1055	17.8	1058	17.8	2	1055	17.8	<b>1055</b>	<b>17.8</b>	1056	17.8
444.namd	2	<b>589</b>	<b>27.2</b>	589	27.2	589	27.2	2	587	27.3	587	27.3	<b>587</b>	<b>27.3</b>
447.dealII	2	<b>639</b>	<b>35.8</b>	639	35.8	640	35.8	2	<b>579</b>	<b>39.5</b>	578	39.6	580	39.5
450.soplex	2	<b>824</b>	<b>20.2</b>	825	20.2	823	20.3	2	<b>836</b>	<b>20.0</b>	836	20.0	832	20.0
453.povray	2	285	37.4	<b>284</b>	<b>37.4</b>	284	37.5	2	<b>221</b>	<b>48.2</b>	221	48.2	221	48.2
454.calculix	2	697	23.7	698	23.7	<b>697</b>	<b>23.7</b>	2	697	23.7	<b>697</b>	<b>23.7</b>	697	23.7
459.GemsFDTD	2	1370	15.5	<b>1367</b>	<b>15.5</b>	1366	15.5	2	1370	15.5	<b>1367</b>	<b>15.5</b>	1366	15.5
465.tonto	2	<b>757</b>	<b>26.0</b>	756	26.0	758	26.0	2	742	26.5	741	26.6	<b>742</b>	<b>26.5</b>
470.lbm	2	1666	16.5	1666	16.5	<b>1666</b>	<b>16.5</b>	2	<b>1699</b>	<b>16.2</b>	1699	16.2	1700	16.2
481.wrf	2	<b>770</b>	<b>29.0</b>	771	29.0	770	29.0	2	771	29.0	772	29.0	<b>771</b>	<b>29.0</b>
482.sphinx3	2	1239	31.5	<b>1240</b>	<b>31.4</b>	1241	31.4	2	1235	31.6	1233	31.6	<b>1234</b>	<b>31.6</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://www.intel.com/products/motherboard/DQ965GF/index.htm>

The system bus runs at 1066 MHz

System was configured with integrated graphics card

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

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