



# SPEC® CFP2006 Result

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## Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo E8200)

SPECfp®\_rate2006 = 28.9

SPECfp\_rate\_base2006 = 27.7

CPU2006 license: 13

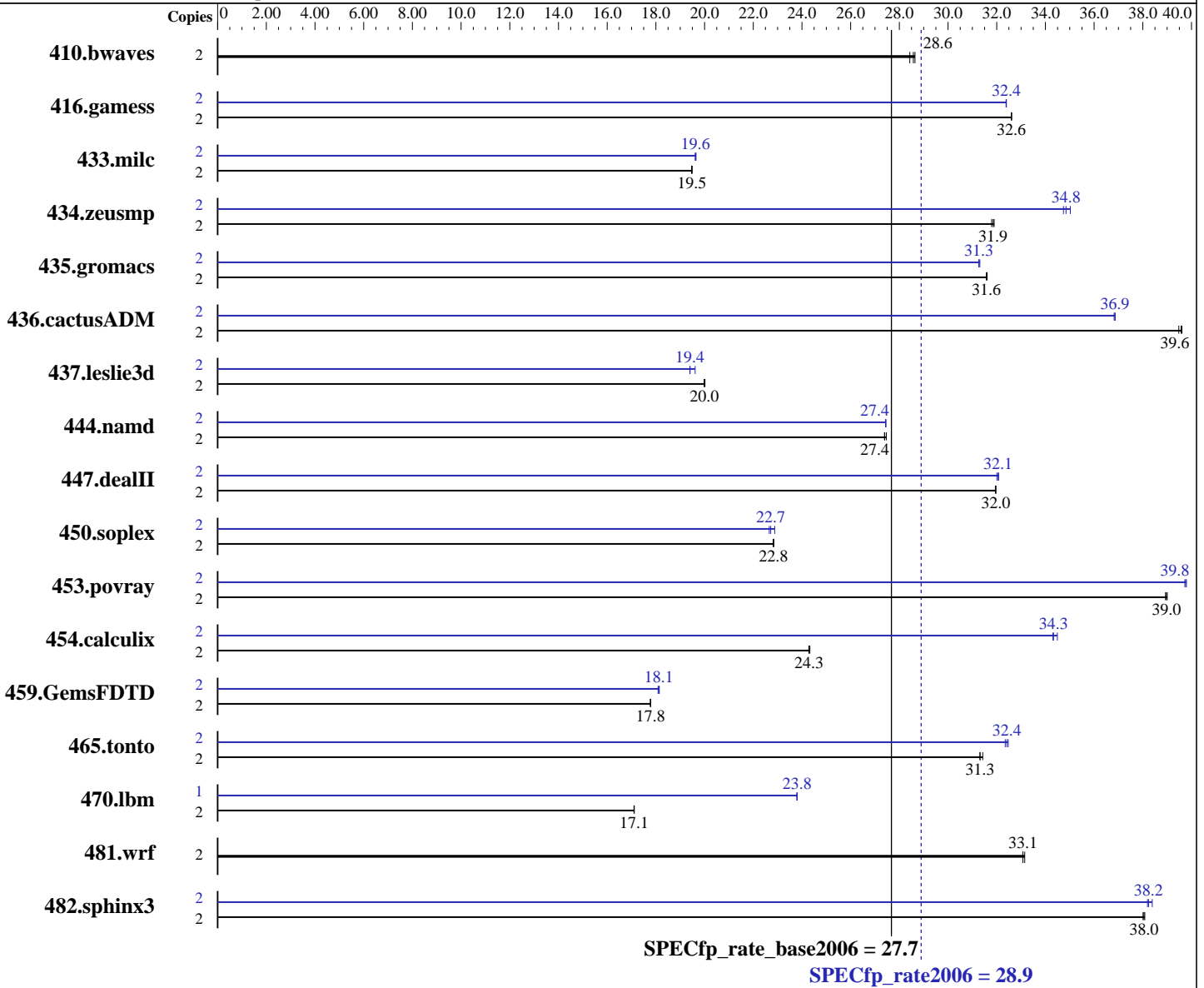
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Feb-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Core 2 Duo E8200  
 CPU Characteristics: 2.66 GHz, 1333 FSB  
 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: 6 MB I+D on chip per chip

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### Software

Operating System: Windows Vista Ultimate (64-bit)  
 Compiler: Intel C++ Compiler for IA32 version 10.1  
 Build 20070913 Package ID: w\_cc\_p\_10.1.011  
 Intel Fortran Compiler for IA32 version 10.1  
 Build 20070913 Package ID: w\_fc\_p\_10.1.011  
 Microsoft Visual Studio 2005 SP1 (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 Micron DDR2-800 CL5)  
Disk Subsystem: Seagate 320GB NCQ SATA, 16MB cache, 7200 RPM  
Other Hardware: None

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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	<u>951</u>	<u>28.6</u>	949	28.6	956	28.4	2	<u>951</u>	<u>28.6</u>	949	28.6	956	28.4
416.gamess	2	1201	32.6	1201	32.6	<u>1201</u>	<u>32.6</u>	2	<u>1209</u>	<u>32.4</u>	1209	32.4	1209	32.4
433.milc	2	943	19.5	<u>943</u>	<u>19.5</u>	942	19.5	2	<u>935</u>	<u>19.6</u>	936	19.6	934	19.6
434.zeusmp	2	<u>571</u>	<u>31.9</u>	571	31.9	573	31.8	2	<u>522</u>	<u>34.8</u>	520	35.0	524	34.7
435.gromacs	2	<u>452</u>	<u>31.6</u>	452	31.6	452	31.6	2	<u>457</u>	<u>31.3</u>	457	31.3	456	31.3
436.cactusADM	2	603	39.6	<u>604</u>	<u>39.6</u>	605	39.5	2	<u>648</u>	<u>36.9</u>	648	36.9	649	36.8
437.leslie3d	2	<u>940</u>	<u>20.0</u>	939	20.0	941	20.0	2	<u>969</u>	<u>19.4</u>	969	19.4	959	19.6
444.namd	2	586	27.4	584	27.5	<u>585</u>	<u>27.4</u>	2	<u>585</u>	<u>27.4</u>	585	27.4	584	27.5
447.dealII	2	716	32.0	<u>716</u>	<u>32.0</u>	716	31.9	2	715	32.0	<u>714</u>	<u>32.1</u>	713	32.1
450.soplex	2	<u>731</u>	<u>22.8</u>	730	22.8	731	22.8	2	<u>734</u>	<u>22.7</u>	736	22.7	729	22.9
453.povray	2	273	39.0	273	38.9	<u>273</u>	<u>39.0</u>	2	<u>268</u>	<u>39.8</u>	268	39.7	267	39.8
454.calculix	2	<u>679</u>	<u>24.3</u>	678	24.3	679	24.3	2	481	34.3	478	34.5	<u>481</u>	<u>34.3</u>
459.GemsFDTD	2	1194	17.8	<u>1193</u>	<u>17.8</u>	1193	17.8	2	1173	18.1	1170	18.1	<u>1171</u>	<u>18.1</u>
465.tonto	2	629	31.3	<u>628</u>	<u>31.3</u>	626	31.4	2	608	32.3	<u>607</u>	<u>32.4</u>	606	32.5
470.lbm	2	1606	17.1	<u>1607</u>	<u>17.1</u>	1607	17.1	1	<u>577</u>	<u>23.8</u>	577	23.8	578	23.8
481.wrf	2	<u>675</u>	<u>33.1</u>	674	33.1	675	33.1	2	<u>675</u>	<u>33.1</u>	674	33.1	675	33.1
482.sphinx3	2	1024	38.1	1026	38.0	<u>1025</u>	<u>38.0</u>	2	<u>1019</u>	<u>38.2</u>	1015	38.4	1021	38.2

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 03/2008:  
<http://www.intel.com/products/motherboard/DQ35JO/index.htm>  
The system bus runs at 1333 MHz  
System was configured with Asus EN8800GTX discrete graphics card  
Binaries were built on Windows Vista Ultimate (32-bit)  
The following VS 2005 SP1 updates were applied: KB926601 and KB932232  
The start command with the /affinity switch was used to bind processes to cores



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## Base Compiler Invocation

C benchmarks:

`icl -Qvc8 -Qc99`

C++ benchmarks:

`icl -Qvc8`

Fortran benchmarks:

`ifort`

Benchmarks using both Fortran and C:

`icl -Qvc8 -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:

`-fast /F1000000000`

C++ benchmarks:

`-fast -Qcxx_features /F1000000000 shlw32m.lib  
-link /FORCE:MULTIPLE`

Fortran benchmarks:

`-fast /F1000000000`

Benchmarks using both Fortran and C:

`-fast /F1000000000`

## Peak Compiler Invocation

C benchmarks:

`icl -Qvc8 -Qc99`

C++ benchmarks:

`icl -Qvc8`

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## Peak Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc8 -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: -fast -Qunroll2 -Oa /F1000000000

470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000

482.sphinx3: -fast -Qunroll2 /F1000000000

C++ benchmarks:

444.namd: -fast -Oa -Qcxx\_features /F1000000000 shlw32m.lib  
-link /FORCE:MULTIPLE

447.dealII: -fast -Qunroll2 -Qprefetch -Qcxx\_features /F1000000000  
shlw32m.lib -link /FORCE:MULTIPLE

450.soplex: -fast -Qcxx\_features /F1000000000 shlw32m.lib  
-link /FORCE:MULTIPLE

453.povray: -fast -Qunroll4 -Qansi-alias -Qcxx\_features /F1000000000  
shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep-  
/F1000000000

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## Peak Optimization Flags (Continued)

434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll10 -Qscalar-rep- /F1000000000

437.leslie3d: -fast -Qprefetch /F1000000000

459.GemsFDTD: -fast -Qunroll12 -Ob0 -Qprefetch /F1000000000

465.tonto: -fast -Qunroll14 -Qauto /F1000000000

Benchmarks using both Fortran and C:

435.gromacs: -fast -Oa -Qprefetch /F1000000000

436.cactusADM: -fast -Qunroll12 -Qprefetch /F1000000000

454.calculix: -fast -Qunroll-aggressive /F1000000000

481.wrf: basepeak = yes

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-flags.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-flags.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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