



# SPEC® CFP2006 Result

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## Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo E8500)

SPECfp®\_rate2006 = 31.2

SPECfp\_rate\_base2006 = 30.5

CPU2006 license: 13

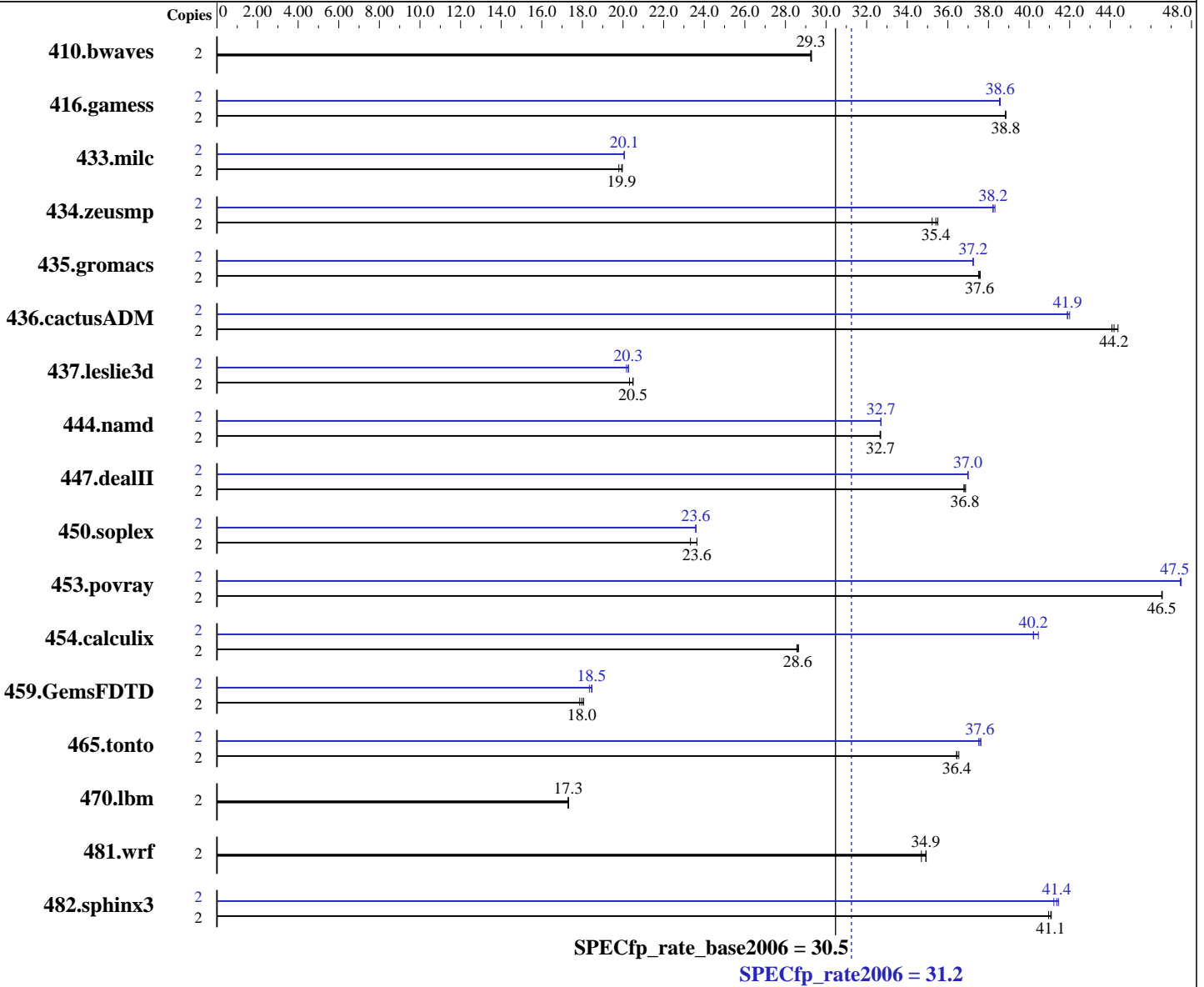
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Feb-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Core 2 Duo E8500  
 CPU Characteristics: 3.16 GHz, 1333 FSB  
 CPU MHz: 3167  
 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	929	29.2	<u>929</u>	<u>29.3</u>	928	29.3	2	929	29.2	<u>929</u>	<u>29.3</u>	928	29.3		
416.gamess	2	<u>1008</u>	<u>38.8</u>	1008	38.8	1008	38.8	2	1016	38.5	1015	38.6	<u>1015</u>	<u>38.6</u>		
433.milc	2	927	19.8	919	20.0	<u>921</u>	<u>19.9</u>	2	915	20.1	916	20.1	<u>915</u>	<u>20.1</u>		
434.zeusmp	2	517	35.2	513	35.5	<u>514</u>	<u>35.4</u>	2	475	38.3	476	38.2	<u>476</u>	<u>38.2</u>		
435.gromacs	2	381	37.5	380	37.6	<u>380</u>	<u>37.6</u>	2	383	37.3	<u>383</u>	<u>37.2</u>	383	37.2		
436.cactusADM	2	542	44.1	<u>541</u>	<u>44.2</u>	539	44.4	2	569	42.0	571	41.9	<u>570</u>	<u>41.9</u>		
437.leslie3d	2	925	20.3	<u>917</u>	<u>20.5</u>	917	20.5	2	932	20.2	928	20.3	<u>928</u>	<u>20.3</u>		
444.namd	2	491	32.7	<u>491</u>	<u>32.7</u>	491	32.7	2	491	32.7	<u>490</u>	<u>32.7</u>	490	32.7		
447.dealII	2	622	36.8	620	36.9	<u>621</u>	<u>36.8</u>	2	619	37.0	618	37.0	<u>618</u>	<u>37.0</u>		
450.soplex	2	715	23.3	<u>706</u>	<u>23.6</u>	705	23.6	2	<u>707</u>	<u>23.6</u>	707	23.6	707	23.6		
453.povray	2	<u>229</u>	<u>46.5</u>	229	46.6	229	46.5	2	224	47.5	224	47.5	<u>224</u>	<u>47.5</u>		
454.calculix	2	<u>577</u>	<u>28.6</u>	578	28.6	576	28.6	2	408	40.5	<u>410</u>	<u>40.2</u>	410	40.2		
459.GemsFDTD	2	1187	17.9	1175	18.1	<u>1180</u>	<u>18.0</u>	2	1157	18.3	1149	18.5	<u>1150</u>	<u>18.5</u>		
465.tonto	2	540	36.4	539	36.5	<u>540</u>	<u>36.4</u>	2	525	37.5	523	37.6	<u>524</u>	<u>37.6</u>		
470.lbm	2	1587	17.3	1588	17.3	<u>1588</u>	<u>17.3</u>	2	1587	17.3	1588	17.3	<u>1588</u>	<u>17.3</u>		
481.wrf	2	644	34.7	640	34.9	<u>640</u>	<u>34.9</u>	2	644	34.7	640	34.9	<u>640</u>	<u>34.9</u>		
482.sphinx3	2	952	41.0	949	41.1	<u>949</u>	<u>41.1</u>	2	946	41.2	<u>942</u>	<u>41.4</u>	940	41.4		

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: basepeak = yes

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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