



# SPEC® CFP2006 Result

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## Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo E8400)

SPECfp®2006 = 20.3

SPECfp\_base2006 = 19.7

CPU2006 license: 13

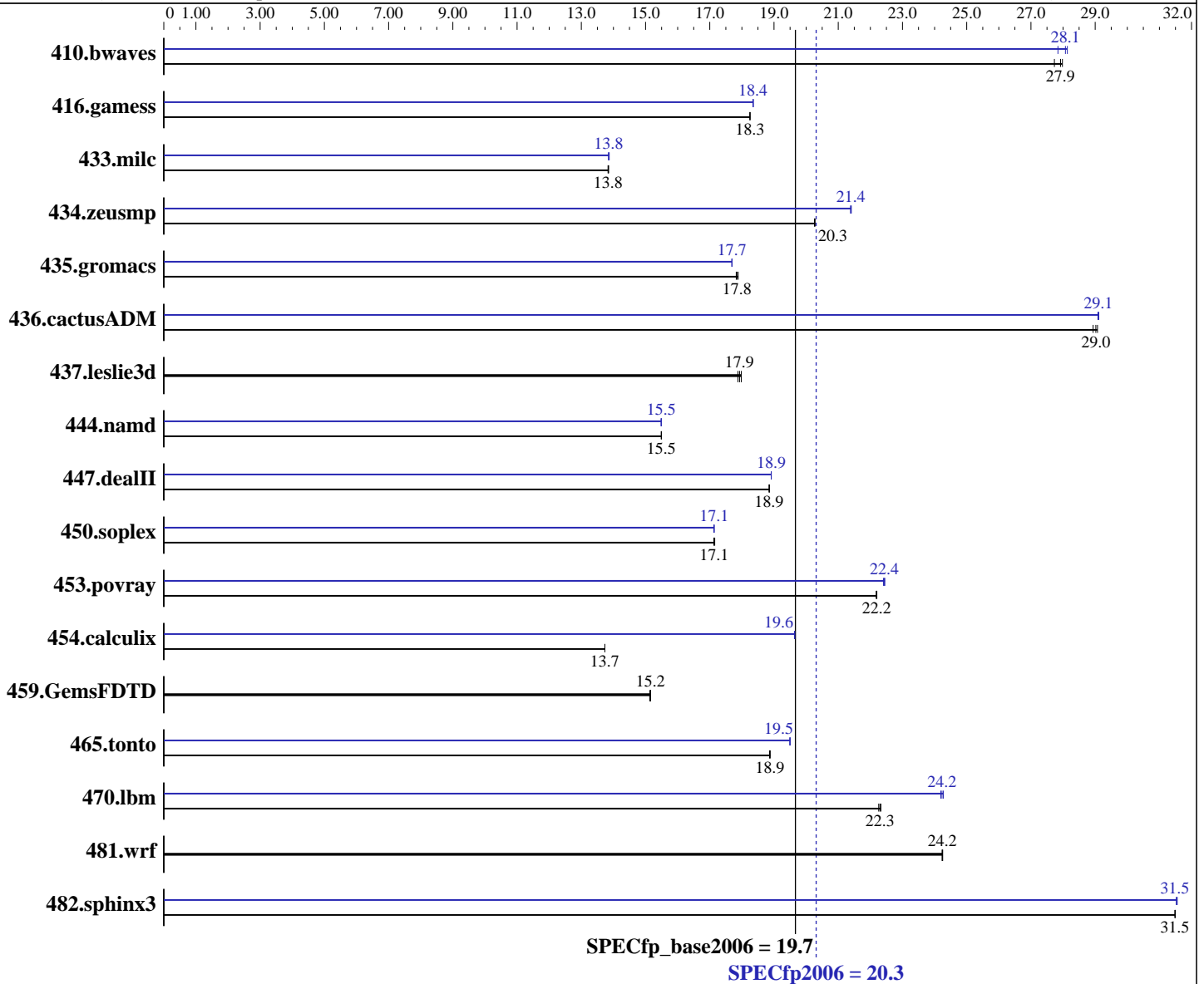
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Feb-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Core 2 Duo E8400  
 CPU Characteristics: 3.00 GHz, 1333 FSB  
 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: 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: Yes  
 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	486	28.0	490	27.7	<b>487</b>	<b>27.9</b>	483	28.1	488	27.8	<b>484</b>	<b>28.1</b>
416.gamess	<b>1073</b>	<b>18.3</b>	1073	18.2	1073	18.3	1067	18.4	1067	18.4	<b>1067</b>	<b>18.4</b>
433.milc	663	13.9	664	13.8	<b>664</b>	<b>13.8</b>	662	13.9	663	13.8	<b>663</b>	<b>13.8</b>
434.zeusmp	449	20.3	449	20.3	<b>449</b>	<b>20.3</b>	425	21.4	<b>425</b>	<b>21.4</b>	426	21.4
435.gromacs	399	17.9	<b>400</b>	<b>17.8</b>	401	17.8	<b>404</b>	<b>17.7</b>	404	17.7	404	17.7
436.cactusADM	411	29.1	<b>412</b>	<b>29.0</b>	413	28.9	411	29.1	<b>411</b>	<b>29.1</b>	410	29.1
437.leslie3d	523	18.0	526	17.9	<b>524</b>	<b>17.9</b>	523	18.0	526	17.9	<b>524</b>	<b>17.9</b>
444.namd	518	15.5	<b>518</b>	<b>15.5</b>	518	15.5	<b>518</b>	<b>15.5</b>	518	15.5	518	15.5
447.dealII	<b>607</b>	<b>18.9</b>	607	18.9	607	18.9	<b>605</b>	<b>18.9</b>	605	18.9	605	18.9
450.soplex	486	17.2	487	17.1	<b>487</b>	<b>17.1</b>	487	17.1	487	17.1	<b>487</b>	<b>17.1</b>
453.povray	240	22.2	240	22.2	<b>240</b>	<b>22.2</b>	237	22.4	<b>237</b>	<b>22.4</b>	237	22.5
454.calculix	<b>601</b>	<b>13.7</b>	601	13.7	601	13.7	420	19.6	<b>420</b>	<b>19.6</b>	420	19.6
459.GemsFDTD	701	15.1	<b>700</b>	<b>15.2</b>	700	15.2	701	15.1	<b>700</b>	<b>15.2</b>	700	15.2
465.tonto	<b>521</b>	<b>18.9</b>	521	18.9	522	18.9	505	19.5	505	19.5	<b>505</b>	<b>19.5</b>
470.lbm	617	22.3	<b>616</b>	<b>22.3</b>	615	22.3	566	24.3	568	24.2	<b>567</b>	<b>24.2</b>
481.wrf	461	24.3	<b>461</b>	<b>24.2</b>	461	24.2	461	24.3	<b>461</b>	<b>24.2</b>	461	24.2
482.sphinx3	619	31.5	619	31.5	<b>619</b>	<b>31.5</b>	<b>618</b>	<b>31.5</b>	618	31.5	618	31.6

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

## Base Compiler Invocation

C benchmarks:

```
icl -Qvc8 -Qc99
```

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## Base Compiler Invocation (Continued)

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 -Qparallel /F1000000000 libguide40.lib

C++ benchmarks:

-fast -Qparallel -Qcxx\_features /F1000000000 shlw32m.lib  
libguide40.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

-fast -Qparallel /F1000000000 libguide40.lib

Benchmarks using both Fortran and C:

-fast -Qparallel /F1000000000 libguide40.lib

## Peak Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

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**Tested by:** Intel Corporation

**Software Availability:** Nov-2007

## Peak Compiler Invocation (Continued)

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 libguide40.lib  
470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000  
libguide40.lib  
482.sphinx3: -fast -Qunroll2 /F1000000000 libguide40.lib

C++ benchmarks:

444.namd: -fast -Oa -Qcxx\_features /F1000000000 shlw32m.lib  
libguide40.lib -link /FORCE:MULTIPLE  
447.dealII: -fast -Qunroll2 -Qprefetch -Qcxx\_features /F1000000000  
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE  
450.soplex: -fast -Qparallel -Qcxx\_features /F1000000000 shlw32m.lib  
libguide40.lib -link /FORCE:MULTIPLE  
453.povray: -fast -Qunroll14 -Qcxx\_features /F1000000000 shlw32m.lib  
libguide40.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -fast -Qparallel -Qprefetch /F1000000000 libguide40.lib  
416.gamess: -fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep-  
/F1000000000 libguide40.lib  
434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll10 -Qscalar-rep- /F1000000000  
libguide40.lib

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## Peak Optimization Flags (Continued)

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -fast -Qunroll4 -Qauto /F1000000000 libguide40.lib

Benchmarks using both Fortran and C:

435.gromacs: -fast -Oa -Qprefetch /F1000000000 libguide40.lib

436.cactusADM: -fast -Qunroll2 -Qparallel -Qprefetch /F1000000000  
libguide40.lib

454.calculix: -fast -Qunroll-aggressive /F1000000000 libguide40.lib

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

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