



SPEC® CFP2006 Result

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Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9300)

SPECfp®2006 = 17.5

SPECfp_base2006 = 16.9

CPU2006 license: 13

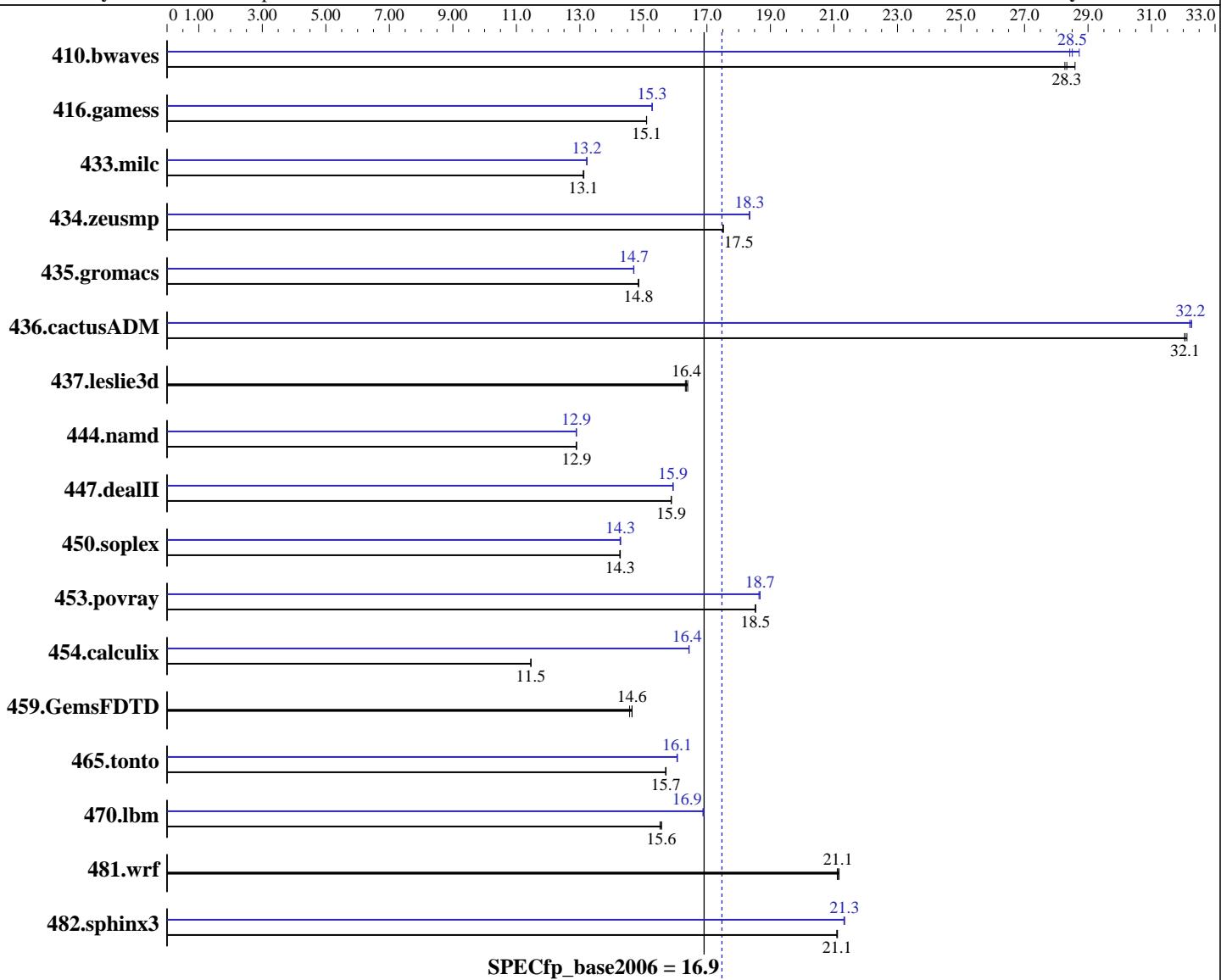
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



Hardware	
CPU Name:	Intel Core 2 Quad Q9300
CPU Characteristics:	2.50 GHz, 1333 FSB
CPU MHz:	2500
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 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, 3 MB shared / 2 cores

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
Auto Parallel:	Intel Fortran Compiler for IA32 version 10.1 Build 20070913 Package ID: w_fc_p_10.1.011
File System:	Microsoft Visual Studio 2005 SP1 (for libraries)
System State:	Yes
	NTFS
	Default

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L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1GB 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	480	28.3	481	28.3	475	28.6	477	28.5	478	28.4	473	28.7
416.gamess	1297	15.1	1297	15.1	1297	15.1	1282	15.3	1281	15.3	1282	15.3
433.milc	699	13.1	700	13.1	700	13.1	695	13.2	694	13.2	695	13.2
434.zeusmp	519	17.5	520	17.5	520	17.5	496	18.3	496	18.3	496	18.3
435.gromacs	481	14.8	481	14.8	481	14.8	486	14.7	486	14.7	486	14.7
436.cactusADM	373	32.1	372	32.1	373	32.0	371	32.2	370	32.3	371	32.2
437.leslie3d	573	16.4	575	16.4	576	16.3	573	16.4	575	16.4	576	16.3
444.namd	622	12.9	623	12.9	622	12.9	622	12.9	622	12.9	622	12.9
447.dealII	720	15.9	721	15.9	720	15.9	718	15.9	718	15.9	718	15.9
450.soplex	585	14.3	584	14.3	585	14.3	585	14.3	584	14.3	584	14.3
453.povray	287	18.5	287	18.5	287	18.5	285	18.7	285	18.6	285	18.7
454.calculix	720	11.5	720	11.5	720	11.5	502	16.4	502	16.4	502	16.4
459.GemsFDTD	728	14.6	725	14.6	725	14.6	728	14.6	725	14.6	725	14.6
465.tonto	626	15.7	627	15.7	626	15.7	613	16.1	612	16.1	612	16.1
470.lbm	885	15.5	883	15.6	883	15.6	814	16.9	813	16.9	813	16.9
481.wrf	529	21.1	529	21.1	528	21.2	529	21.1	529	21.1	528	21.2
482.sphinx3	923	21.1	924	21.1	924	21.1	914	21.3	914	21.3	914	21.3

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 -Ovc8 -Oc99 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 /F100000000000 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

Continued on next page



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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 -Qunroll12 -Oa /F1000000000 libguide40.lib
470.lbm: -fast -Qunroll12 -Qscalar-rep- -Qprefetch /F1000000000
          libguide40.lib
482.sphinx3: -fast -Qunroll12 /F1000000000 libguide40.lib
```

C++ benchmarks:

```
444.namd: -fast -Oa -Qcxx_features /F1000000000 shlw32m.lib
          libguide40.lib           -link /FORCE:MULTIPLE
447.dealII: -fast -Qunroll12 -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 -Qunroll4 -Qcxx_features /F1000000000 shlw32m.lib
          libguide40.lib           -link /FORCE:MULTIPLE
```

Fortran benchmarks:

```
410.bwaves: -fast -Qparallel -Qprefetch /F1000000000 libguide40.lib
416.gamess: -fast -Qunroll12 -Ob0 -Qansi-alias -Qscalar-rep-
            /F1000000000 libguide40.lib
434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll0 -Qscalar-rep- /F1000000000
            libguide40.lib
```

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Peak Optimization Flags (Continued)

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -fast -Qunroll14 -Qauto /F1000000000 libguide40.lib

Benchmarks using both Fortran and C:

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

436.cactusADM: -fast -Qunroll12 -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.

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