



# SPEC® CFP2006 Result

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## Intel Corporation

Intel DG965WH motherboard  
(3.2 GHz, Intel Pentium D processor 940)

SPECfp®2006 = **Not Run**

SPECfp\_base2006 = **11.2**

CPU2006 license: 13

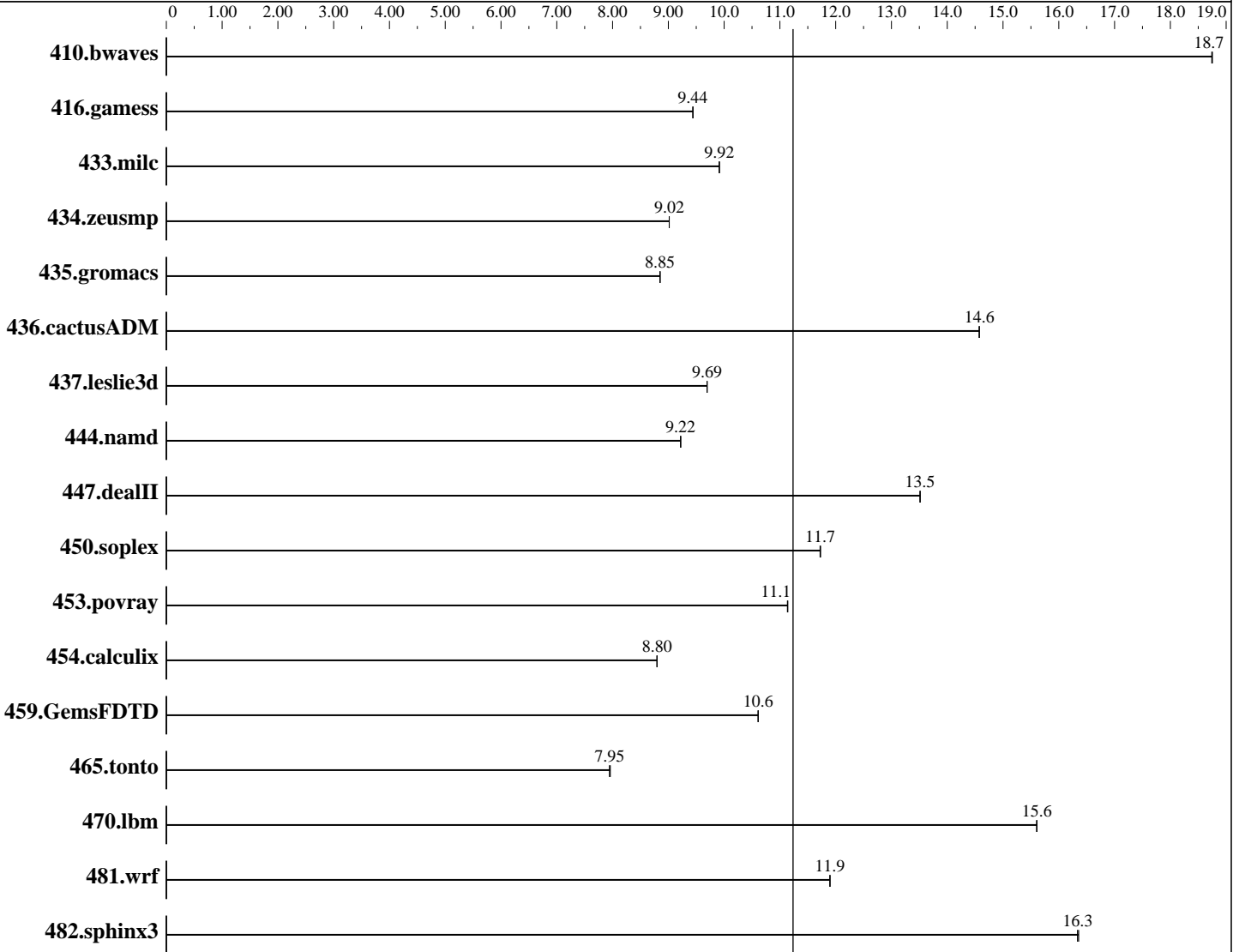
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jan-2007

Hardware Availability: Aug-2006

Software Availability: Aug-2006



SPECfp\_base2006 = 11.2

### Hardware

CPU Name: Intel Pentium D 940  
 CPU Characteristics: 3.20 GHz, 800 MHz bus  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per core  
 Secondary Cache: 2 MB I+D on chip per core

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### Software

Operating System: Windows XP Professional w/ SP2  
 Compiler: Intel C++ and Fortran Compiler for IA32 version 9.1  
 Build no 20060816  
 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit

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L3 Cache: None  
Other Cache: None  
Memory: 2 GB (2 1GB Micron MT16HTF12864AY-80ED4 DDR2 800, CL5)  
Disk Subsystem: Maxtor DiamondMax 10 6B300S0 300GB NCQ Serial ATA (7200 RPM, 16MB cache)  
Other Hardware: SoundBlaster Live! PCI card

Peak Pointers: Not Applicable  
Other Software: SmartHeap Library Version 8.0 from <http://www.microquill.com/>

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	725	18.7	<b><u>725</u></b>	<b><u>18.7</u></b>	725	18.8						
416.gamess	2074	9.44	<b><u>2074</u></b>	<b><u>9.44</u></b>	2074	9.44						
433.milc	926	9.92	<b><u>926</u></b>	<b><u>9.92</u></b>	926	9.91						
434.zeusmp	1009	9.02	1009	9.02	<b><u>1009</u></b>	<b><u>9.02</u></b>						
435.gromacs	807	8.85	<b><u>807</u></b>	<b><u>8.85</u></b>	807	8.85						
436.cactusADM	820	14.6	<b><u>820</u></b>	<b><u>14.6</u></b>	820	14.6						
437.leslie3d	969	9.70	<b><u>970</u></b>	<b><u>9.69</u></b>	970	9.69						
444.namd	<b><u>870</u></b>	<b><u>9.22</u></b>	870	9.22	870	9.22						
447.dealII	<b><u>847</u></b>	<b><u>13.5</u></b>	847	13.5	847	13.5						
450.soplex	711	11.7	712	11.7	<b><u>712</u></b>	<b><u>11.7</u></b>						
453.povray	478	11.1	478	11.1	<b><u>478</u></b>	<b><u>11.1</u></b>						
454.calculix	<b><u>938</u></b>	<b><u>8.80</u></b>	938	8.80	938	8.80						
459.GemsFDTD	1000	10.6	<b><u>1000</u></b>	<b><u>10.6</u></b>	1000	10.6						
465.tonto	<b><u>1238</u></b>	<b><u>7.95</u></b>	1236	7.96	1238	7.95						
470.lbm	880	15.6	881	15.6	<b><u>880</u></b>	<b><u>15.6</u></b>						
481.wrf	939	11.9	<b><u>939</u></b>	<b><u>11.9</u></b>	939	11.9						
482.sphinx3	1193	16.3	<b><u>1193</u></b>	<b><u>16.3</u></b>	1192	16.4						

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 1/2007:

<http://www.intel.com/products/motherboard/DG965WH/index.htm>

The system bus runs at 800 MHz

System was configured with Single nVidia Quad SLI Geforce 7950 GX2

## Base Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

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## Base Compiler Invocation (Continued)

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 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

-fast /F950000000 -link /FORCE:MULTIPLE

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

<http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090715.06.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090715.06.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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