



# SPEC® CFP2006 Result

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## Intel Corporation

Intel DG965WH motherboard  
(3.4 GHz, Intel Pentium D processor 950)

SPECfp®\_rate2006 = Not Run

SPECfp\_rate\_base2006 = 19.7

CPU2006 license: 13

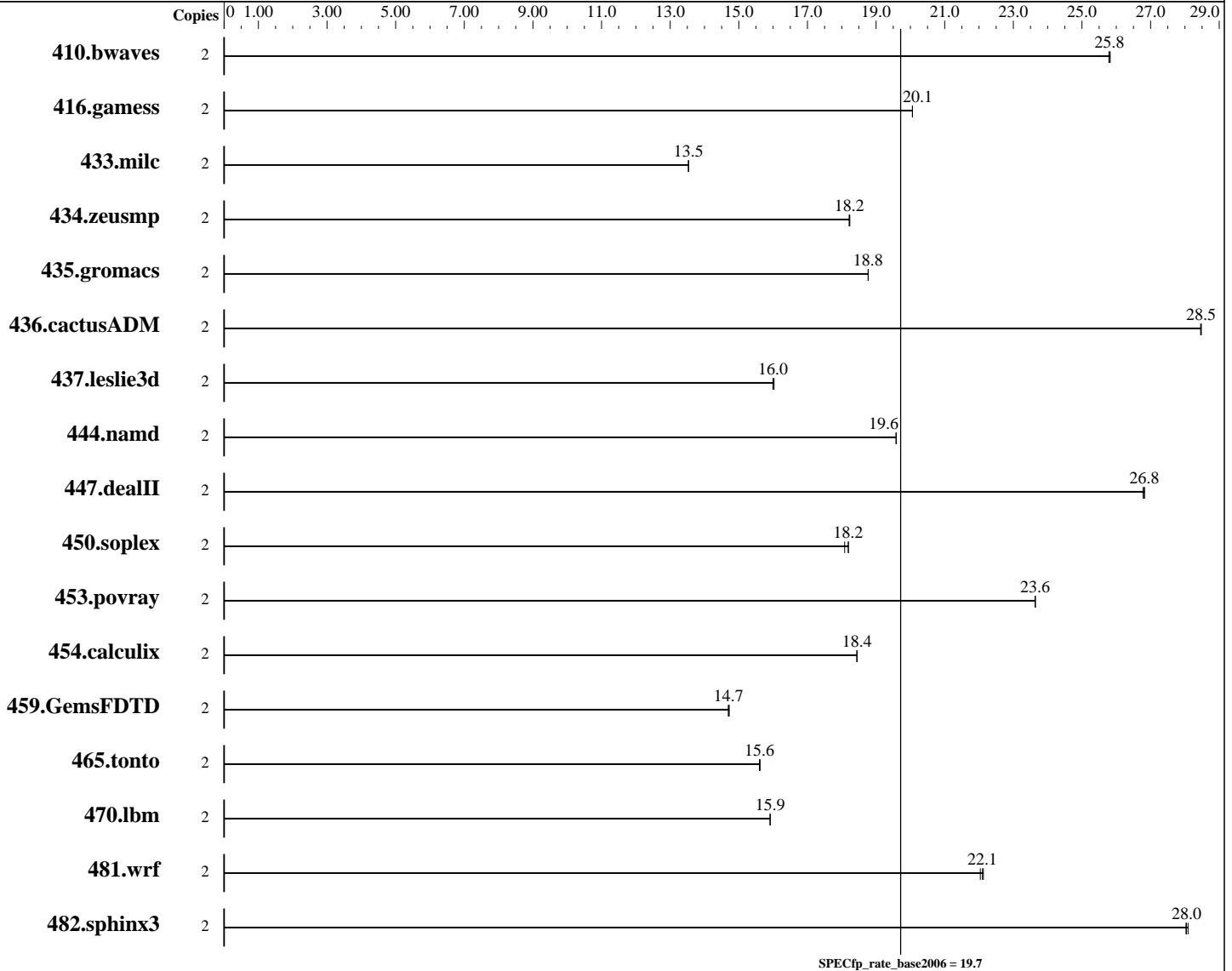
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jan-2007

Hardware Availability: Aug-2006

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Pentium D 950  
 CPU Characteristics: 3.4 GHz, 800 MHz bus  
 CPU MHz: 3400  
 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							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	2	1054	25.8	1053	25.8	<b>1053</b>	<b>25.8</b>									
416.gamess	2	1952	20.1	<b>1952</b>	<b>20.1</b>	1952	20.1									
433.milc	2	1357	13.5	1356	13.5	<b>1357</b>	<b>13.5</b>									
434.zeusmp	2	<b>999</b>	<b>18.2</b>	999	18.2	998	18.2									
435.gromacs	2	<b>761</b>	<b>18.8</b>	761	18.8	761	18.8									
436.cactusADM	2	839	28.5	<b>840</b>	<b>28.5</b>	840	28.5									
437.leslie3d	2	1175	16.0	<b>1175</b>	<b>16.0</b>	1173	16.0									
444.namd	2	819	19.6	<b>819</b>	<b>19.6</b>	819	19.6									
447.dealII	2	853	26.8	<b>853</b>	<b>26.8</b>	854	26.8									
450.soplex	2	<b>917</b>	<b>18.2</b>	917	18.2	922	18.1									
453.povray	2	450	23.6	450	23.6	<b>450</b>	<b>23.6</b>									
454.calculix	2	894	18.4	895	18.4	<b>895</b>	<b>18.4</b>									
459.GemsFDTD	2	<b>1444</b>	<b>14.7</b>	1444	14.7	1442	14.7									
465.tonto	2	1261	15.6	<b>1261</b>	<b>15.6</b>	1260	15.6									
470.lbm	2	1727	15.9	<b>1727</b>	<b>15.9</b>	1727	15.9									
481.wrf	2	1010	22.1	1014	22.0	<b>1011</b>	<b>22.1</b>									
482.sphinx3	2	<b>1390</b>	<b>28.0</b>	1391	28.0	1388	28.1									

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).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 10:23:03 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 20 February 2007.