



SPEC® CFP2006 Result

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Intel Corporation

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

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 19.0

CPU2006 license: 13

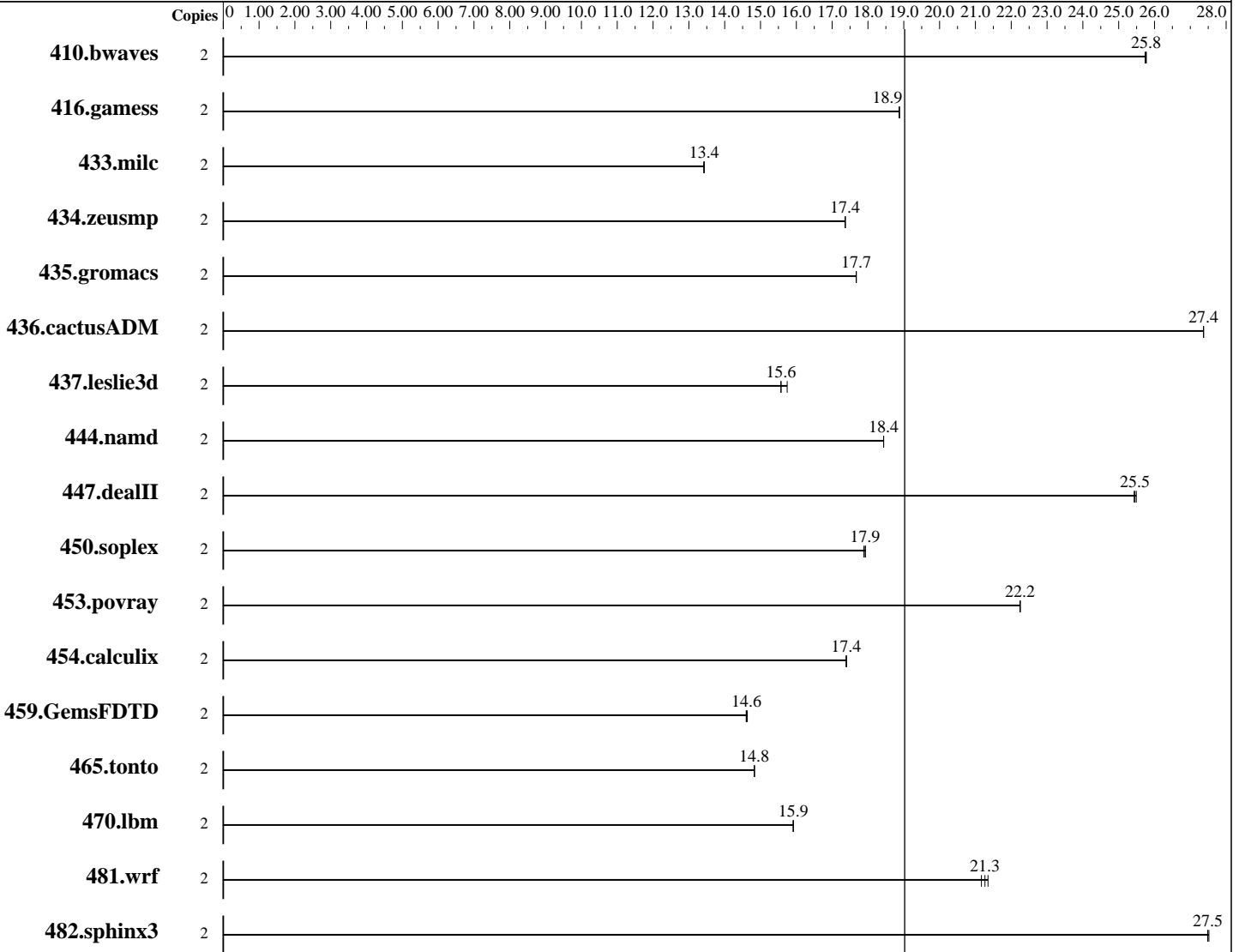
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jan-2007

Hardware Availability: Aug-2006

Software Availability: Aug-2006



SPECfp_rate_base2006 = 19.0

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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1056	25.7	<u>1055</u>	<u>25.8</u>	1055	25.8							
416.gamess	2	2075	18.9	2074	18.9	<u>2074</u>	<u>18.9</u>							
433.milc	2	<u>1367</u>	<u>13.4</u>	1367	13.4	1369	13.4							
434.zeusmp	2	1048	17.4	1048	17.4	<u>1048</u>	<u>17.4</u>							
435.gromacs	2	<u>808</u>	<u>17.7</u>	808	17.7	808	17.7							
436.cactusADM	2	873	27.4	873	27.4	<u>873</u>	<u>27.4</u>							
437.leslie3d	2	<u>1207</u>	<u>15.6</u>	1207	15.6	1194	15.7							
444.namd	2	870	18.4	<u>870</u>	<u>18.4</u>	870	18.4							
447.dealII	2	898	25.5	<u>899</u>	<u>25.5</u>	900	25.4							
450.soplex	2	930	17.9	<u>931</u>	<u>17.9</u>	933	17.9							
453.povray	2	478	22.3	<u>478</u>	<u>22.2</u>	478	22.2							
454.calculix	2	949	17.4	<u>948</u>	<u>17.4</u>	948	17.4							
459.GemsFDTD	2	<u>1453</u>	<u>14.6</u>	1453	14.6	1450	14.6							
465.tonto	2	<u>1327</u>	<u>14.8</u>	1327	14.8	1327	14.8							
470.lbm	2	1727	15.9	<u>1727</u>	<u>15.9</u>	1727	15.9							
481.wrf	2	1046	21.4	<u>1050</u>	<u>21.3</u>	1055	21.2							
482.sphinx3	2	1416	27.5	1418	27.5	<u>1418</u>	<u>27.5</u>							

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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