SPEC® CFP2006 Result

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Intel Corporation

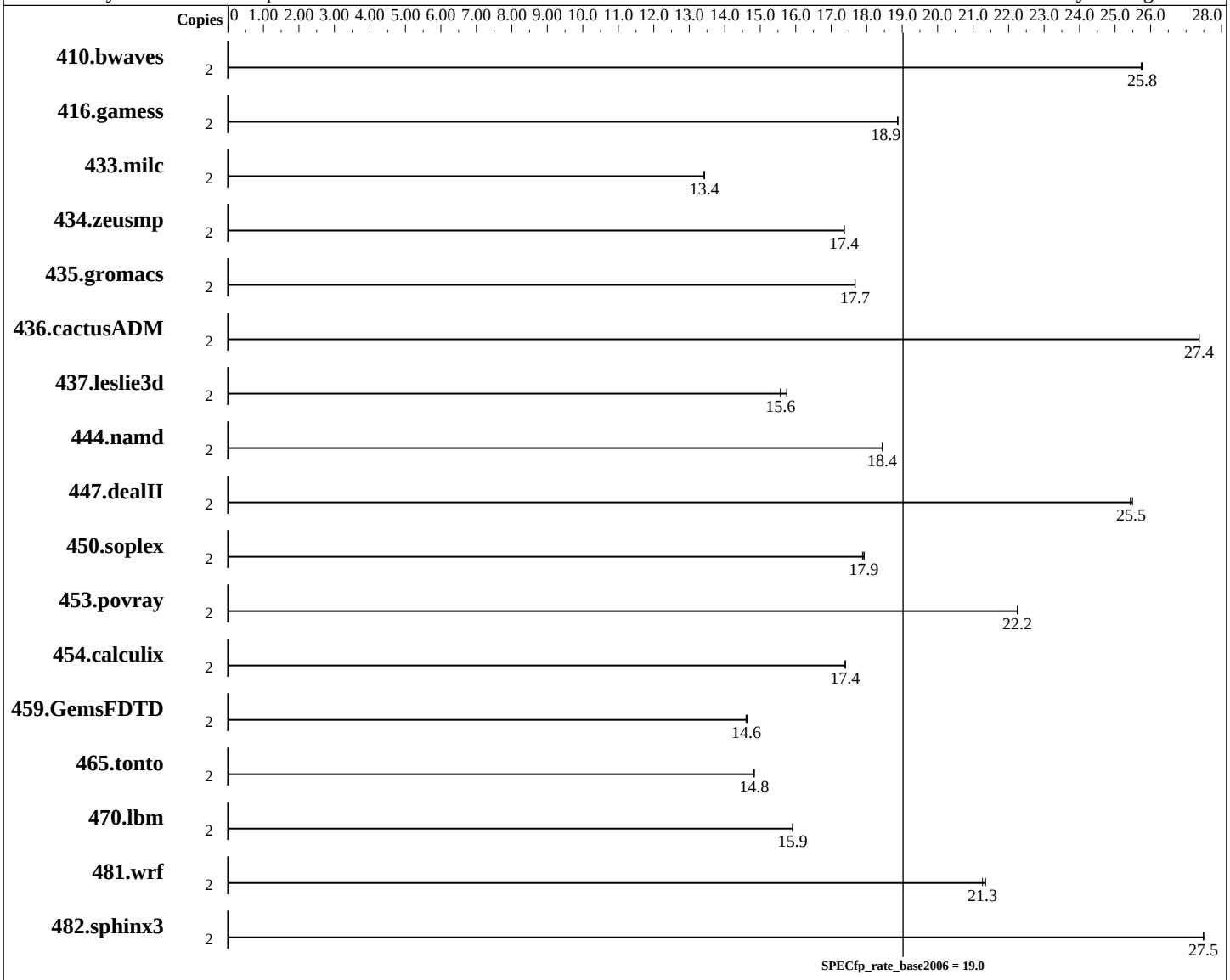
Intel DG965WH motherboard
(3.2 GHz, Intel Pentium D processor 940)

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



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

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 other inquiries, please contact webmaster@spec.org.

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