SPEC® CFP2006 Result

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Intel Corporation

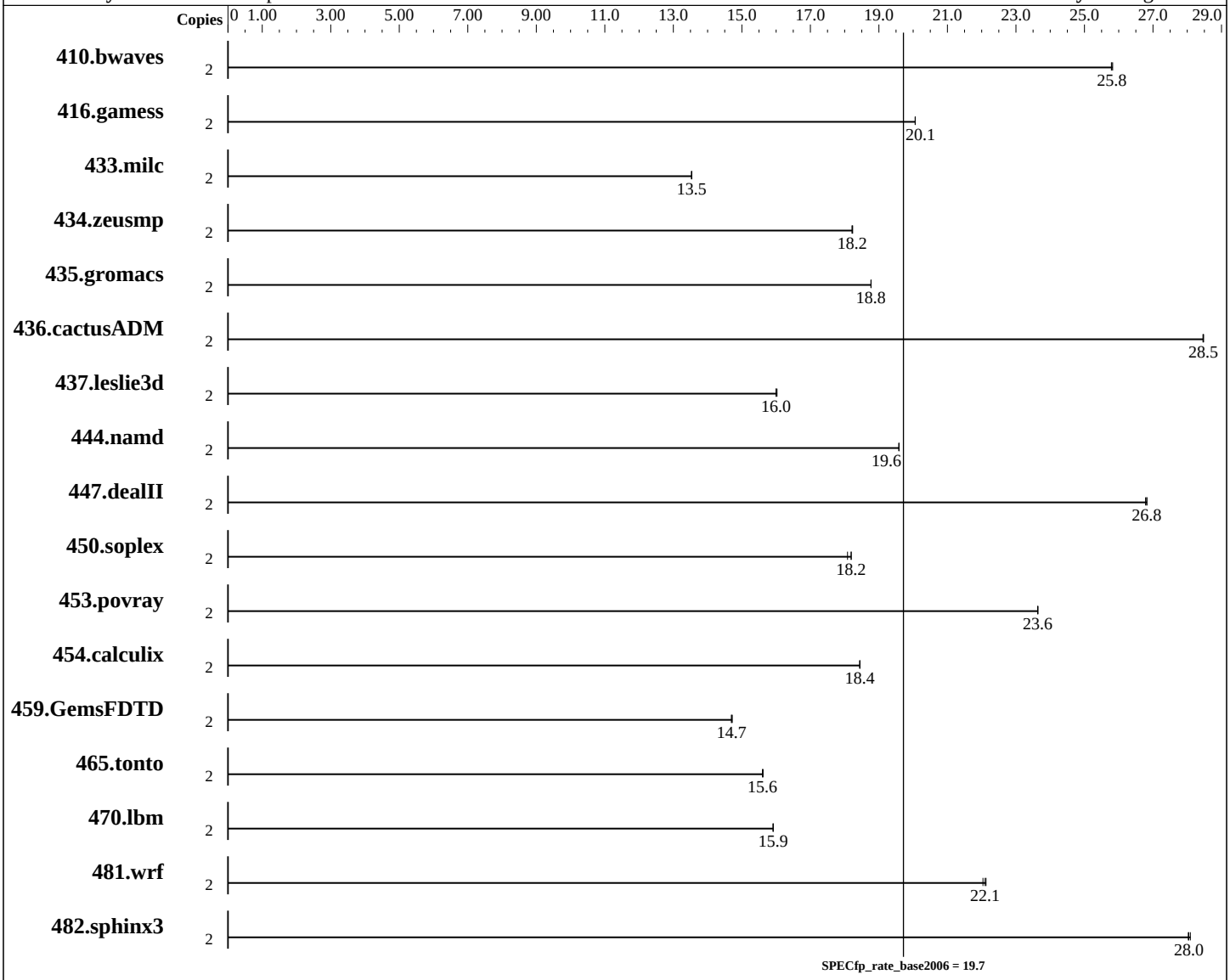
Intel DG965WH motherboard
(3.4 GHz, Intel Pentium D processor 950)

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	**1053**	**25.8**							
416.gamess	2	1952	20.1	**1952**	**20.1**	1952	20.1							
433.milc	2	1357	13.5	1356	13.5	**1357**	**13.5**							
434.zeusmp	2	**999**	**18.2**	999	18.2	998	18.2							
435.gromacs	2	**761**	**18.8**	761	18.8	761	18.8							
436.cactusADM	2	839	28.5	**840**	**28.5**	840	28.5							
437.leslie3d	2	1175	16.0	**1175**	**16.0**	1173	16.0							
444.namd	2	819	19.6	**819**	**19.6**	819	19.6							
447.dealII	2	853	26.8	**853**	**26.8**	854	26.8							
450.soplex	2	**917**	**18.2**	917	18.2	922	18.1							
453.povray	2	450	23.6	450	23.6	**450**	**23.6**							
454.calculix	2	894	18.4	895	18.4	**895**	**18.4**							
459.GemsFDTD	2	**1444**	**14.7**	1444	14.7	1442	14.7							
465.tonto	2	1261	15.6	**1261**	**15.6**	1260	15.6							
470.lbm	2	1727	15.9	**1727**	**15.9**	1727	15.9							
481.wrf	2	1010	22.1	1014	22.0	**1011**	**22.1**							
482.sphinx3	2	**1390**	**28.0**	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 other inquiries, please contact webmaster@spec.org.

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