SPEC® CFP2006 Result

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Intel Corporation

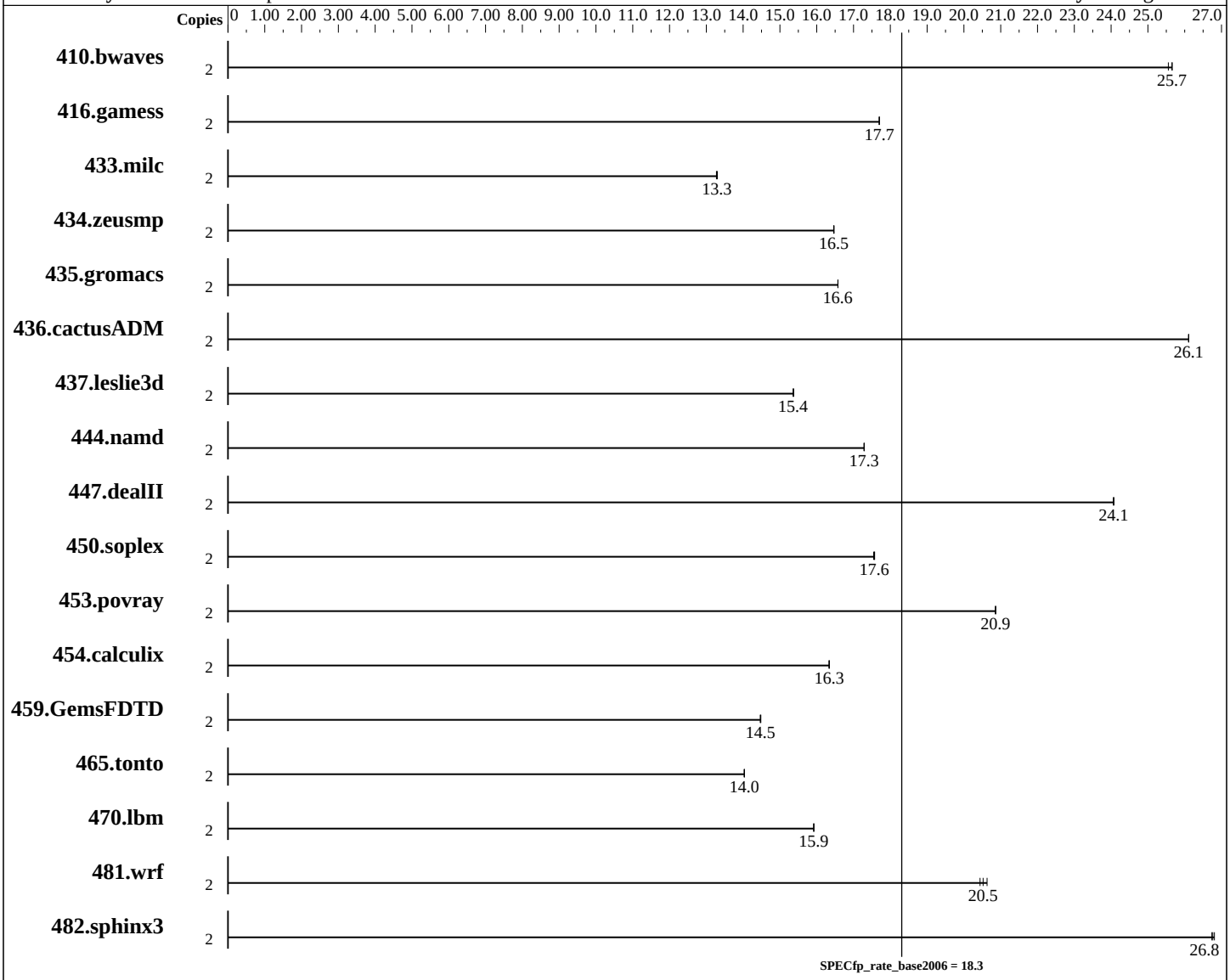
Intel DG965WH motherboard
(3.0 GHz, Intel Pentium D processor 930)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 18.3

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 930
CPU Characteristics:	3.0 GHz, 800 MHz bus
CPU MHz:	3000
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	1064	25.6	**1060**	**25.7**	1059	25.7							
416.gamess	2	**2212**	**17.7**	2212	17.7	2213	17.7							
433.milc	2	1383	13.3	**1382**	**13.3**	1381	13.3							
434.zeusmp	2	1105	16.5	1106	16.5	**1106**	**16.5**							
435.gromacs	2	862	16.6	**861**	**16.6**	861	16.6							
436.cactusADM	2	**915**	**26.1**	916	26.1	915	26.1							
437.leslie3d	2	1223	15.4	1224	15.4	**1224**	**15.4**							
444.namd	2	928	17.3	**928**	**17.3**	928	17.3							
447.dealII	2	**950**	**24.1**	950	24.1	951	24.1							
450.soplex	2	951	17.5	**949**	**17.6**	949	17.6							
453.povray	2	**510**	**20.9**	510	20.9	510	20.9							
454.calculix	2	1010	16.3	1010	16.3	**1010**	**16.3**							
459.GemsFDTD	2	1467	14.5	**1466**	**14.5**	1465	14.5							
465.tonto	2	1402	14.0	**1402**	**14.0**	1403	14.0							
470.lbm	2	1726	15.9	1726	15.9	**1726**	**15.9**							
481.wrf	2	1083	20.6	1093	20.4	**1089**	**20.5**							
482.sphinx3	2	1458	26.7	1454	26.8	**1456**	**26.8**							

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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