SPEC® CFP2006 Result

Intel Corporation

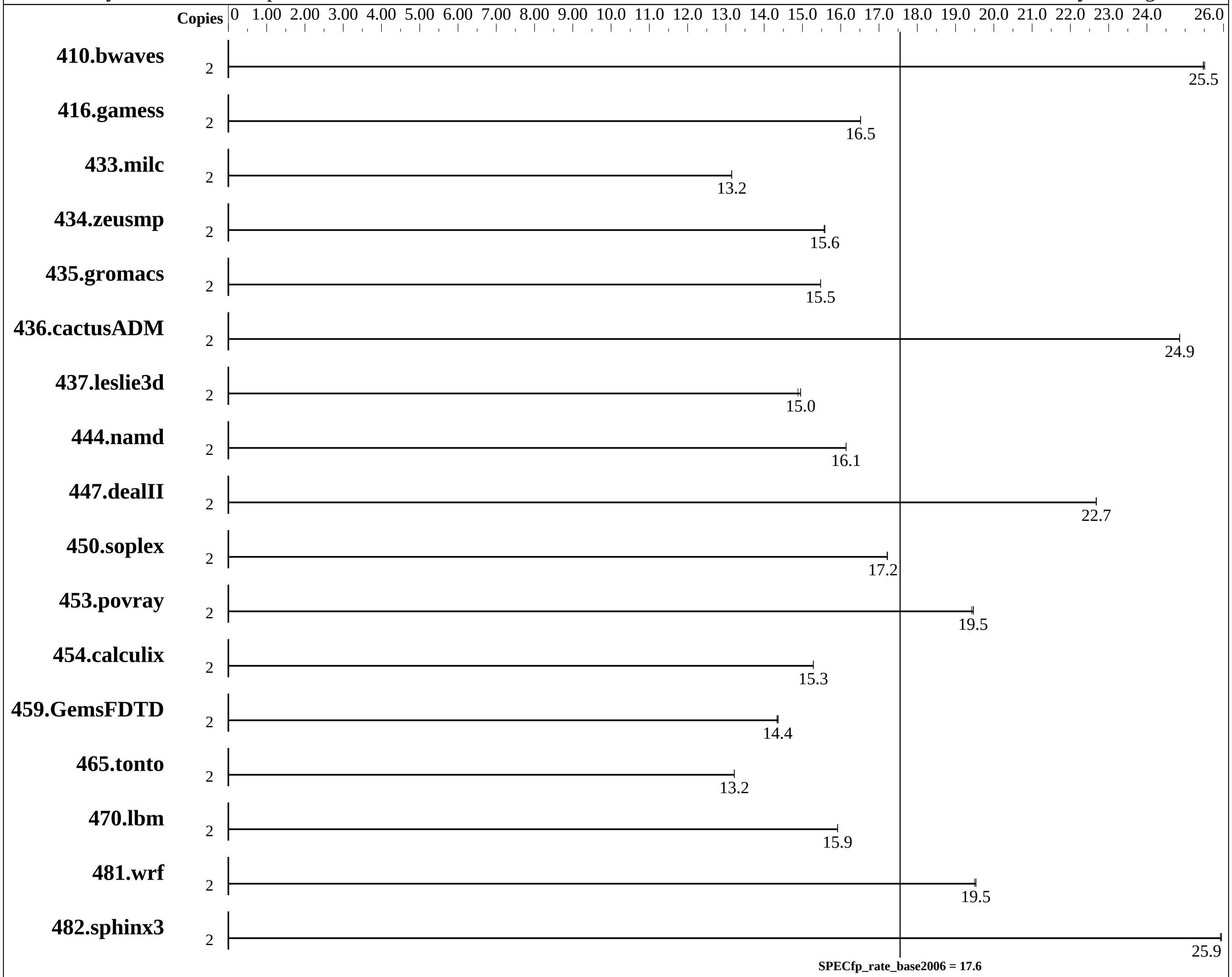
Intel DG965WH motherboard
(2.8 GHz, Intel Pentium D processor 920)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 17.6

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 920
CPU Characteristics:	2.8 GHz, 800 MHz bus
CPU MHz:	2800
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	1067	25.5	**1067**	**25.5**	1065	25.5							
416.gamess	2	**2370**	**16.5**	2371	16.5	2370	16.5							
433.milc	2	1396	13.1	**1396**	**13.2**	1396	13.2							
434.zeusmp	2	**1168**	**15.6**	1169	15.6	1168	15.6							
435.gromacs	2	923	15.5	**923**	**15.5**	923	15.5							
436.cactusADM	2	**962**	**24.9**	962	24.9	962	24.9							
437.leslie3d	2	1257	15.0	**1257**	**15.0**	1263	14.9							
444.namd	2	994	16.1	994	16.1	**994**	**16.1**							
447.dealII	2	**1009**	**22.7**	1009	22.7	1009	22.7							
450.soplex	2	969	17.2	**969**	**17.2**	968	17.2							
453.povray	2	547	19.5	548	19.4	**547**	**19.5**							
454.calculix	2	1080	15.3	1080	15.3	**1080**	**15.3**							
459.GemsFDTD	2	**1478**	**14.4**	1477	14.4	1481	14.3							
465.tonto	2	1489	13.2	**1489**	**13.2**	1488	13.2							
470.lbm	2	1726	15.9	**1726**	**15.9**	1726	15.9							
481.wrf	2	1146	19.5	1144	19.5	**1144**	**19.5**							
482.sphinx3	2	1502	26.0	1504	25.9	**1503**	**25.9**							

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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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