SPEC® CFP2006 Result

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Intel Corporation

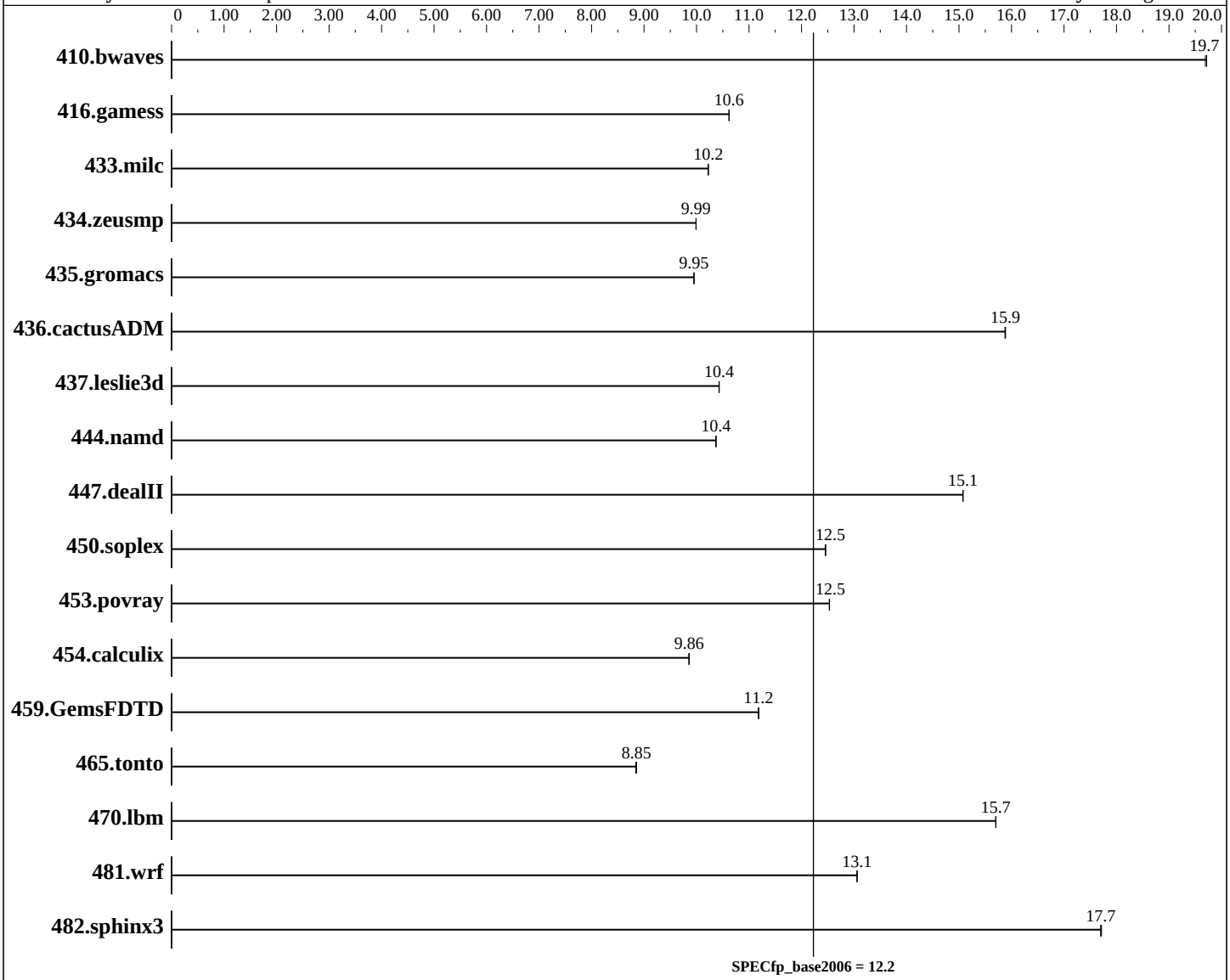
Intel DG965WH motherboard
(3.60 GHz, Intel Pentium D processor 960)

SPECfp®2006 = Not Run

SPECfp_base2006 = 12.2

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 960
CPU Characteristics:	3.60 GHz, 800 MHz bus
CPU MHz:	3600
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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	690	19.7	689	19.7	**689**	**19.7**						
416.gamess	1844	10.6	1844	10.6	**1844**	**10.6**						
433.milc	898	10.2	898	10.2	**898**	**10.2**						
434.zeusmp	**911**	**9.99**	911	9.99	911	9.99						
435.gromacs	**717**	**9.95**	717	9.95	717	9.95						
436.cactusADM	752	15.9	753	15.9	**752**	**15.9**						
437.leslie3d	901	10.4	**901**	**10.4**	901	10.4						
444.namd	773	10.4	773	10.4	**773**	**10.4**						
447.dealII	**759**	**15.1**	759	15.1	759	15.1						
450.soplex	669	12.5	670	12.5	**669**	**12.5**						
453.povray	**425**	**12.5**	424	12.5	425	12.5						
454.calculix	**837**	**9.86**	837	9.86	837	9.85						
459.GemsFDTD	949	11.2	**949**	**11.2**	949	11.2						
465.tonto	**1111**	**8.85**	1113	8.84	1111	8.86						
470.lbm	875	15.7	875	15.7	**875**	**15.7**						
481.wrf	**855**	**13.1**	855	13.1	855	13.1						
482.sphinx3	1100	17.7	**1101**	**17.7**	1101	17.7						

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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