SPEC® CFP2006 Result

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Intel Corporation

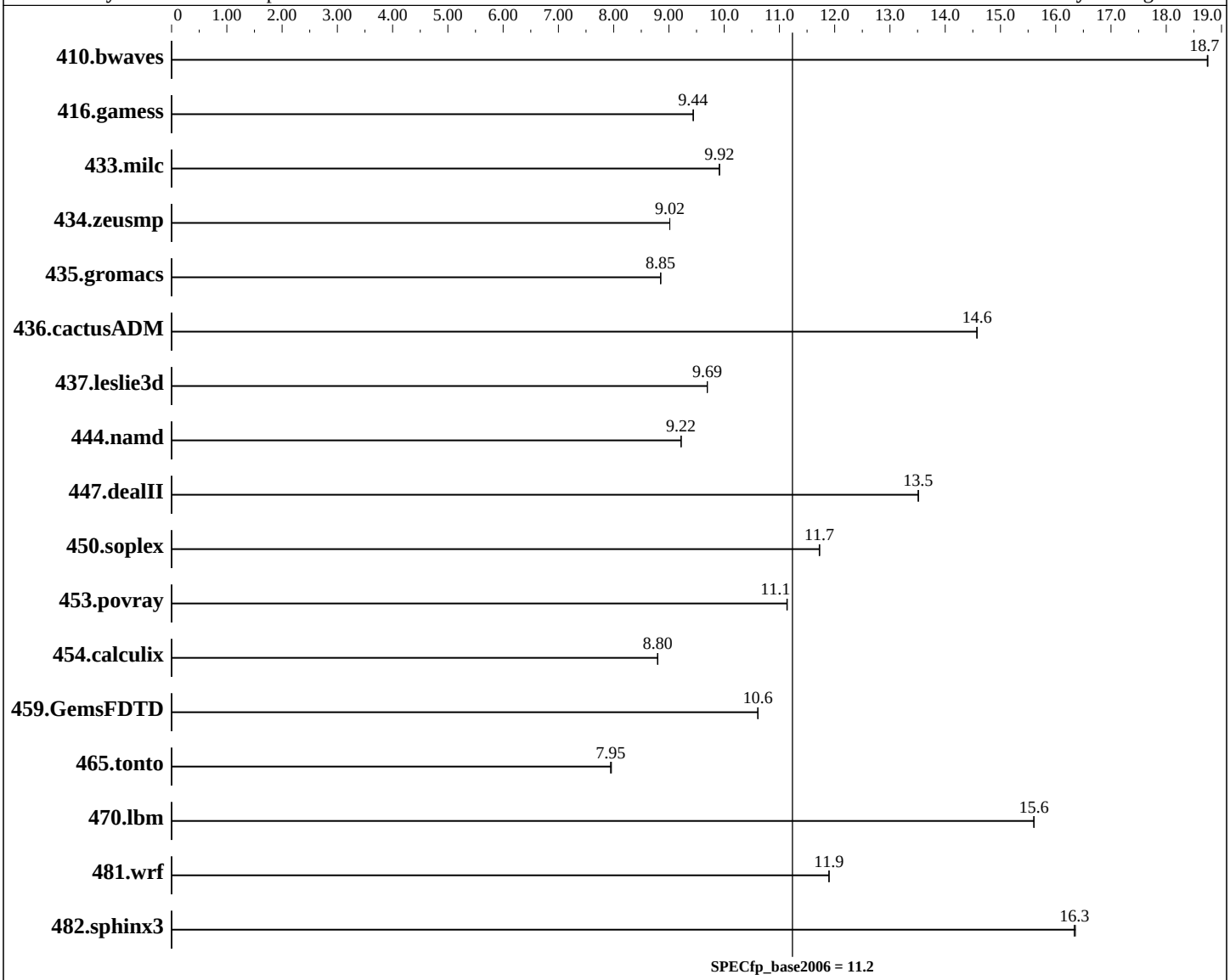
Intel DG965WH motherboard
(3.2 GHz, Intel Pentium D processor 940)

SPECfp®2006 = Not Run

SPECfp_base2006 = 11.2

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 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	725	18.7	**725**	**18.7**	725	18.8						
416.gamess	2074	9.44	**2074**	**9.44**	2074	9.44						
433.milc	926	9.92	**926**	**9.92**	926	9.91						
434.zeusmp	1009	9.02	1009	9.02	**1009**	**9.02**						
435.gromacs	807	8.85	**807**	**8.85**	807	8.85						
436.cactusADM	820	14.6	**820**	**14.6**	820	14.6						
437.leslie3d	969	9.70	**970**	**9.69**	970	9.69						
444.namd	**870**	**9.22**	870	9.22	870	9.22						
447.dealII	**847**	**13.5**	847	13.5	847	13.5						
450.soplex	711	11.7	712	11.7	**712**	**11.7**						
453.povray	478	11.1	478	11.1	**478**	**11.1**						
454.calculix	**938**	**8.80**	938	8.80	938	8.80						
459.GemsFDTD	1000	10.6	**1000**	**10.6**	1000	10.6						
465.tonto	**1238**	**7.95**	1236	7.96	1238	7.95						
470.lbm	880	15.6	881	15.6	**880**	**15.6**						
481.wrf	939	11.9	**939**	**11.9**	939	11.9						
482.sphinx3	1193	16.3	**1193**	**16.3**	1192	16.4						

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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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:23:51 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 20 February 2007.