SPEC® CFP2006 Result

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Intel Corporation

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

$SPECfp^{®}2006 =$ Not Run
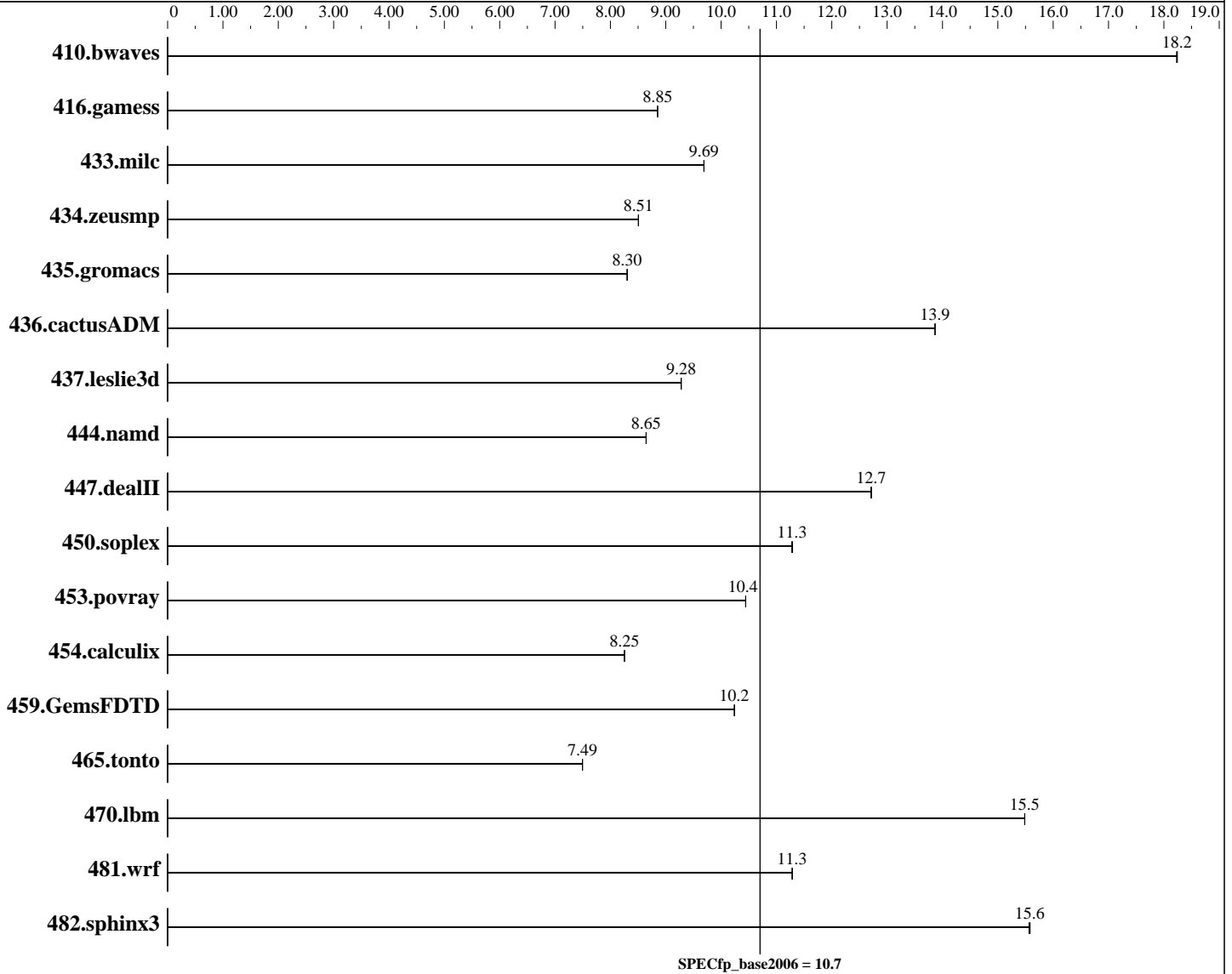
$SPECfp\_base2006 =$ 10.7

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jan-2007
Hardware Availability: Aug-2006
Software Availability: Aug-2006

Benchmark	Result
410.bwaves	18.2
416.gamess	8.85
433.milc	9.69
434.zeusmp	8.51
435.gromacs	8.30
436.cactusADM	13.9
437.leslie3d	9.28
444.namd	8.65
447.dealII	12.7
450.soplex	11.3
453.povray	10.4
454.calculix	8.25
459.GemsFDTD	10.2
465.tonto	7.49
470.lbm	15.5
481.wrf	11.3
482.sphinx3	15.6

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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

Continued on next page

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	Peak Pointers:	Not Applicable
Other Cache:	None	Other Software:	SmartHeap Library Version 8.0 from
Memory:	2 GB (2 1GB Micron MT16HTF12864AY-80ED4 DDR2 800, CL5)		http://www.microquill.com/
Disk Subsystem:	Maxtor DiamondMax 10 6B300S0 300GB NCQ Serial ATA (7200 RPM, 16MB cache)		
Other Hardware:	SoundBlaster Live! PCI card		

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	**745**	**18.2**	745	18.2	745	18.2						
416.gamess	2212	8.85	**2212**	**8.85**	2212	8.85						
433.milc	**947**	**9.69**	947	9.69	947	9.69						
434.zeusmp	**1070**	**8.51**	1070	8.51	1070	8.51						
435.gromacs	860	8.30	**860**	**8.30**	860	8.30						
436.cactusADM	862	13.9	862	13.9	**862**	**13.9**						
437.leslie3d	1013	9.28	**1013**	**9.28**	1013	9.28						
444.namd	**928**	**8.65**	928	8.65	928	8.65						
447.dealII	900	12.7	**900**	**12.7**	900	12.7						
450.soplex	739	11.3	740	11.3	**739**	**11.3**						
453.povray	509	10.4	509	10.4	**509**	**10.4**						
454.calculix	999	8.26	**1000**	**8.25**	1000	8.25						
459.GemsFDTD	1036	10.2	1036	10.2	**1036**	**10.2**						
465.tonto	1313	7.50	1313	7.49	**1313**	**7.49**						
470.lbm	887	15.5	**887**	**15.5**	887	15.5						
481.wrf	990	11.3	990	11.3	**990**	**11.3**						
482.sphinx3	**1251**	**15.6**	1252	15.6	1251	15.6						

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

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