SPEC® CFP2006 Result
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Intel Corporation

Intel DG965WH motherboard
(2.93 GHz, Intel Core 2 Extreme processor X6800)

$SPECfp^{®}\_rate2006 =$ Not Run
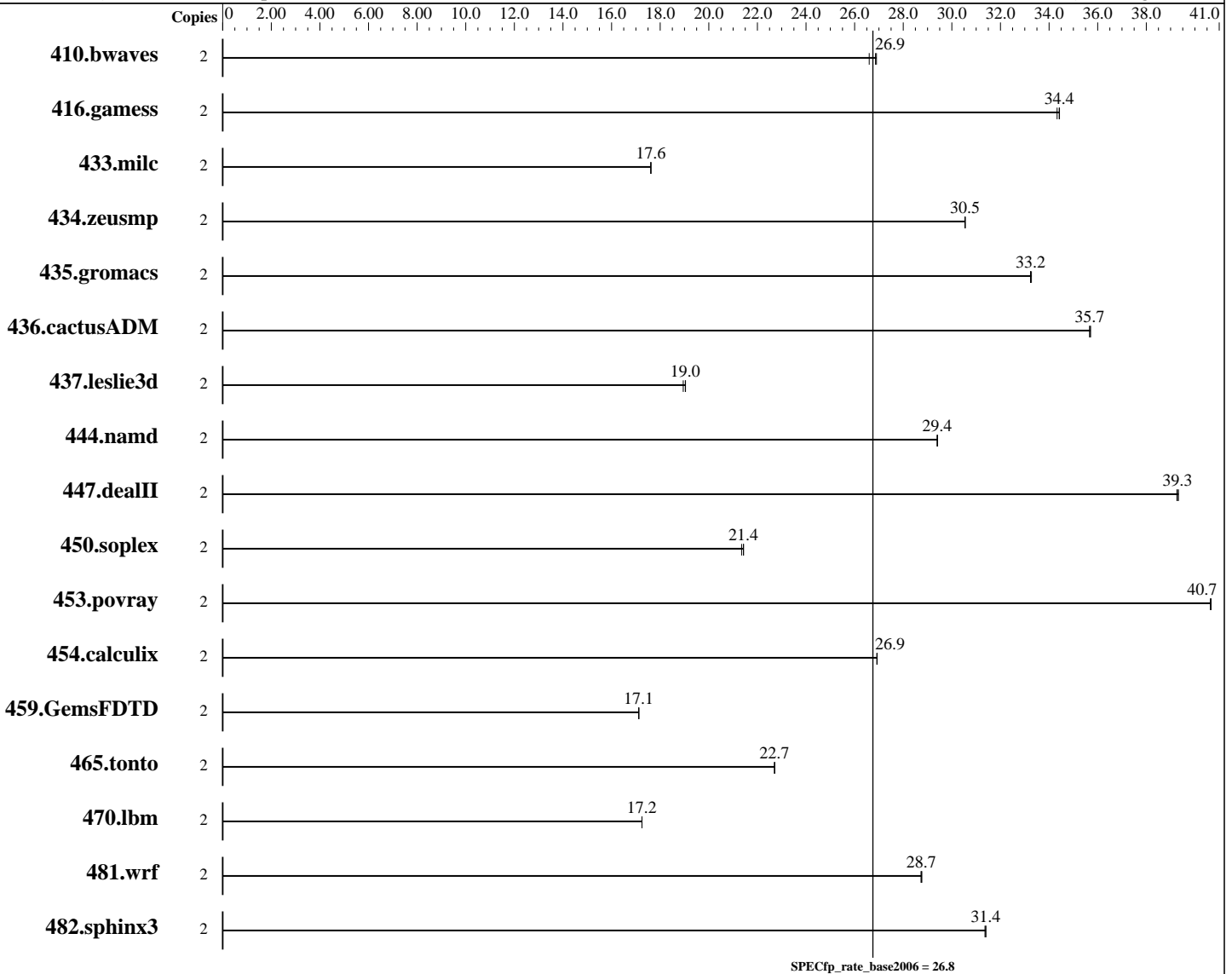
$SPECfp\_rate\_base2006 =$ 26.8

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

Test date: Aug-2006
Hardware Availability: Jul-2006
Software Availability: Aug-2006

Benchmark	Copies	Result
410.bwaves	2	26.9
416.gamess	2	34.4
433.milc	2	17.6
434.zeusmp	2	30.5
435.gromacs	2	33.2
436.cactusADM	2	35.7
437.leslie3d	2	19.0
444.namd	2	29.4
447.dealII	2	39.3
450.soplex	2	21.4
453.povray	2	40.7
454.calculix	2	26.9
459.GemsFDTD	2	17.1
465.tonto	2	22.7
470.lbm	2	17.2
481.wrf	2	28.7
482.sphinx3	2	31.4

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Hardware

CPU Name: Intel Core 2 Extreme X6800
CPU Characteristics: 2.93 GHz, 1066 MHz bus
CPU MHz: 2933
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip
Continued on next page

Software

Operating System: Windows XP Professional SP2 32-bit
Compiler: Intel C++ and Fortran Compiler 9.1 for IA32
Build 20060816Z
Microsoft Visual Studio .Net 2003 (for libraries)
SmartHeap Library Version 8.0 from
http://www.microquill.com/
Auto Parallel: No
File System: NTFS
System State: Default
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L3 Cache:	None	Base Pointers:	32-bit
Other Cache:	None	Peak Pointers:	Not Applicable
Memory:	2 GB (2 1GB Corsair TWIN2X2048-8500C5 DDR2 1066 CL5-5-5)	Other Software:	None
Disk Subsystem:	Maxtor DiamondMax 10 6B300S0 300GB NCQ Serial ATA (7200 RPM, 16MB cache)		
Other Hardware:	None		

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1022	26.6	**1012**	**26.9**	1010	26.9							
416.gamess	2	1141	34.3	**1138**	**34.4**	1137	34.4							
433.milc	2	1042	17.6	1042	17.6	**1042**	**17.6**							
434.zeusmp	2	596	30.5	**596**	**30.5**	596	30.5							
435.gromacs	2	429	33.3	**430**	**33.2**	430	33.2							
436.cactusADM	2	670	35.7	669	35.7	**670**	**35.7**							
437.leslie3d	2	992	18.9	**988**	**19.0**	987	19.0							
444.namd	2	546	29.4	545	29.4	**546**	**29.4**							
447.dealII	2	583	39.3	**582**	**39.3**	582	39.3							
450.soplex	2	781	21.3	778	21.4	**778**	**21.4**							
453.povray	2	**262**	**40.7**	262	40.6	262	40.7							
454.calculix	2	**613**	**26.9**	613	26.9	613	26.9							
459.GemsFDTD	2	1240	17.1	**1240**	**17.1**	1239	17.1							
465.tonto	2	867	22.7	867	22.7	**867**	**22.7**							
470.lbm	2	1593	17.3	**1593**	**17.2**	1593	17.2							
481.wrf	2	777	28.8	**777**	**28.7**	777	28.7							
482.sphinx3	2	1242	31.4	1243	31.4	**1242**	**31.4**							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Memory timings set manually to DDR2-800 5-5-5-15 in the bios

Base Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:
```
icl -Qvc7.1
```

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Base Compiler Invocation (Continued)

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.20090715.03.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090715.03.xml

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