SPEC® CFP2006 Result

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Hewlett-Packard Company

(Test Sponsor: Intel Corporation)

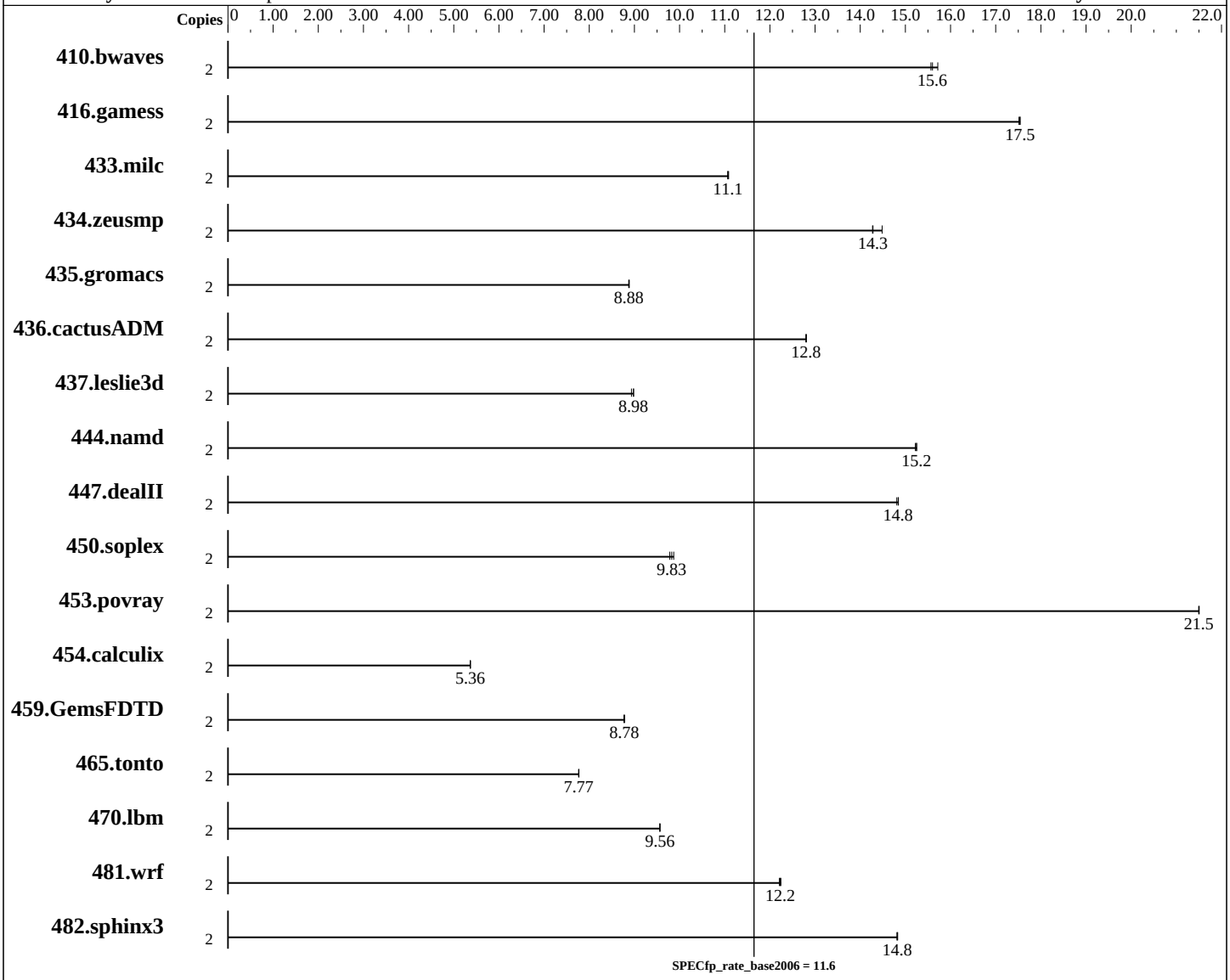
Compaq 6515B (AMD Turion 64 X2 TL-56)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 11.6

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

Test date: Jun-2007
Hardware Availability: Jun-2007
Software Availability: Feb-2007



Hardware

CPU Name:	AMD Turion 64 X2 TL-56
CPU Characteristics:	1.8 GHz 2x512KB L2
CPU MHz:	1800
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	512 KB I+D on chip per core

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Software

Operating System:	Windows Vista32 Business
Compiler:	Intel C++ Compiler for IA32 version 9.1 Build no 20060816 Intel 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

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L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB Qimonda HYS64T128021HDL-3S-B DDR2-667 CL5)
Disk Subsystem: Hitachi 100GB 5400rpm SATA HDD
Other Hardware: None

Base Pointers: 32-bit
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	1746	15.6	**1742**	**15.6**	1729	15.7							
416.gamess	2	**2233**	**17.5**	2236	17.5	2233	17.5							
433.milc	2	1656	11.1	1659	11.1	**1658**	**11.1**							
434.zeusmp	2	1256	14.5	1275	14.3	**1274**	**14.3**							
435.gromacs	2	**1608**	**8.88**	1609	8.87	1607	8.89							
436.cactusADM	2	1867	12.8	**1867**	**12.8**	1866	12.8							
437.leslie3d	2	2104	8.93	**2094**	**8.98**	2093	8.98							
444.namd	2	**1052**	**15.2**	1054	15.2	1052	15.3							
447.dealII	2	1545	14.8	1541	14.8	**1542**	**14.8**							
450.soplex	2	1690	9.87	1705	9.78	**1697**	**9.83**							
453.povray	2	495	21.5	**495**	**21.5**	495	21.5							
454.calculix	2	3072	5.37	**3076**	**5.36**	3077	5.36							
459.GemsFDTD	2	2416	8.78	**2418**	**8.78**	2421	8.77							
465.tonto	2	**2533**	**7.77**	2532	7.77	2534	7.77							
470.lbm	2	2873	9.57	2873	9.56	**2873**	**9.56**							
481.wrf	2	**1827**	**12.2**	1830	12.2	1825	12.2							
482.sphinx3	2	2629	14.8	2631	14.8	**2630**	**14.8**							

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

General Notes

```
Binaries built on Windows XP Professional w/ SP2
Vista Power Profile set to High Performance
```

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:
-arch:SSE2 -Qprec-div- -O3 -Qipo /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:
-arch:SSE2 -Qprec-div- -O3 -Qipo -Oi- -Qcxx_features /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
-arch:SSE2 -Qprec-div- -O3 -Qipo -Oi- /F950000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
-arch:SSE2 -Qprec-div- -O3 -Qipo -Oi- /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-ia32-flags.20090714.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.20090714.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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