SPEC® CFP2006 Result
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Hewlett-Packard Company
(Test Sponsor: Intel Corporation)

$SPECfp®2006 =$ **Not Run**

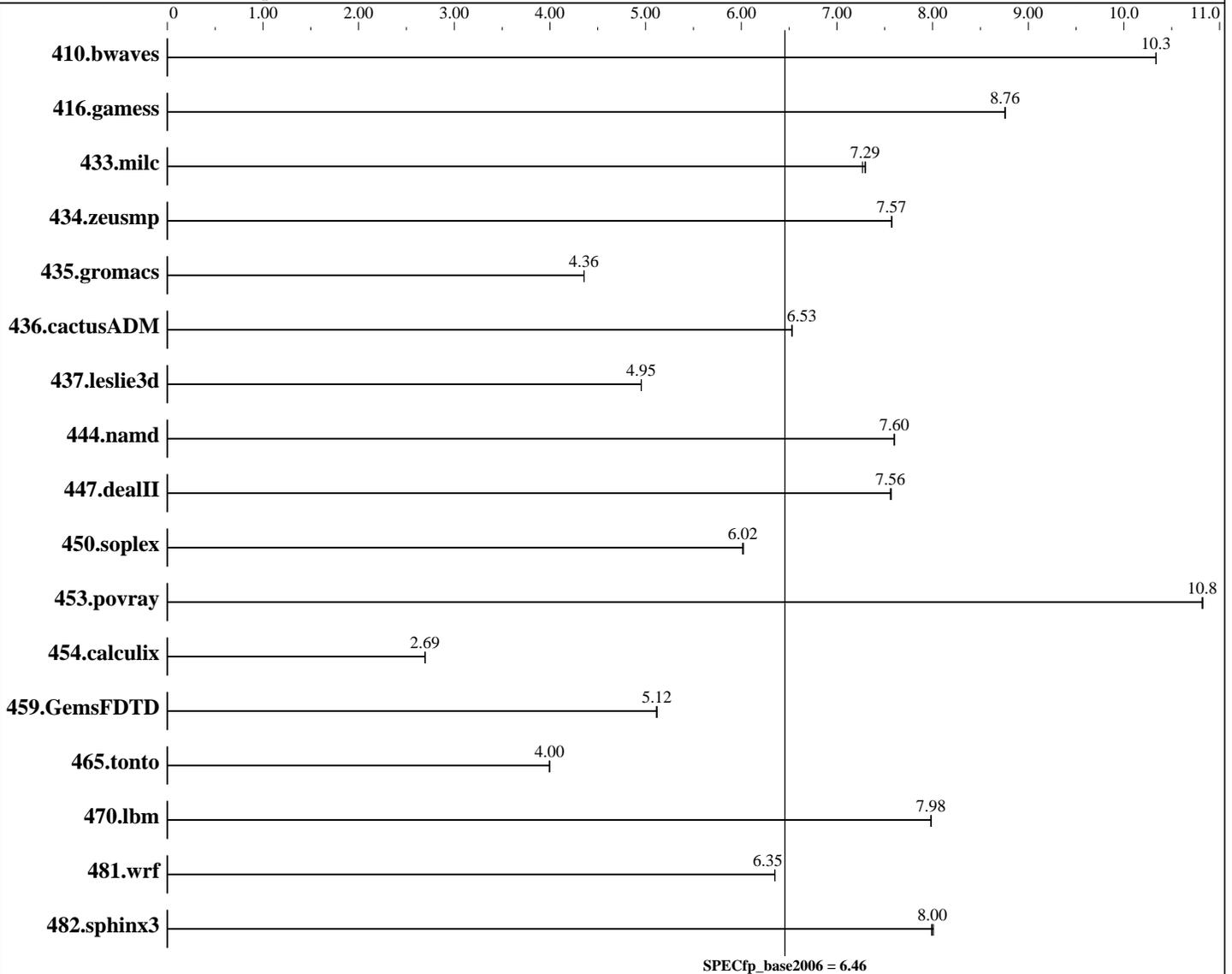### Compaq 6515B (AMD Turion 64 X2 TL-56)

$SPECfp\_base2006 =$ 6.46

CPU2006 license: 13	**Test date:** Jun-2007
Test sponsor: Intel Corporation	**Hardware Availability:** Jun-2007
Tested by: Intel Corporation	**Software Availability:** Feb-2007

Benchmark results (SPECfp_base2006 = 6.46):

Benchmark	Result
410.bwaves	10.3
416.gamess	8.76
433.milc	7.29
434.zeusmp	7.57
435.gromacs	4.36
436.cactusADM	6.53
437.leslie3d	4.95
444.namd	7.60
447.dealII	7.56
450.soplex	6.02
453.povray	10.8
454.calculix	2.69
459.GemsFDTD	5.12
465.tonto	4.00
470.lbm	7.98
481.wrf	6.35
482.sphinx3	8.00

SPECfp_base2006 = 6.46

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

Continued on next page

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

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	**1315**	**10.3**	1315	10.3	1315	10.3						
416.gamess	2236	8.76	2235	8.76	**2236**	**8.76**						
433.milc	1263	7.27	1258	7.30	**1259**	**7.29**						
434.zeusmp	1202	7.57	**1202**	**7.57**	1201	7.57						
435.gromacs	1639	4.36	1638	4.36	**1639**	**4.36**						
436.cactusADM	1829	6.53	**1830**	**6.53**	1831	6.53						
437.leslie3d	**1898**	**4.95**	1898	4.95	1897	4.95						
444.namd	1055	7.60	**1055**	**7.60**	1056	7.60						
447.dealII	1514	7.56	**1513**	**7.56**	1511	7.57						
450.soplex	**1386**	**6.02**	1386	6.02	1384	6.02						
453.povray	**492**	**10.8**	491	10.8	492	10.8						
454.calculix	3062	2.69	3061	2.69	**3062**	**2.69**						
459.GemsFDTD	2076	5.11	2073	5.12	**2073**	**5.12**						
465.tonto	**2462**	**4.00**	2464	3.99	2462	4.00						
470.lbm	1721	7.98	1720	7.99	**1721**	**7.98**						
481.wrf	**1759**	**6.35**	1759	6.35	1758	6.35						
482.sphinx3	2433	8.01	2439	7.99	**2437**	**8.00**						

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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