SPEC® CFP2006 Result
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Intel Corporation
Lenovo Thinkpad T60

$SPECfp®\_rate2006 =$ 16.6
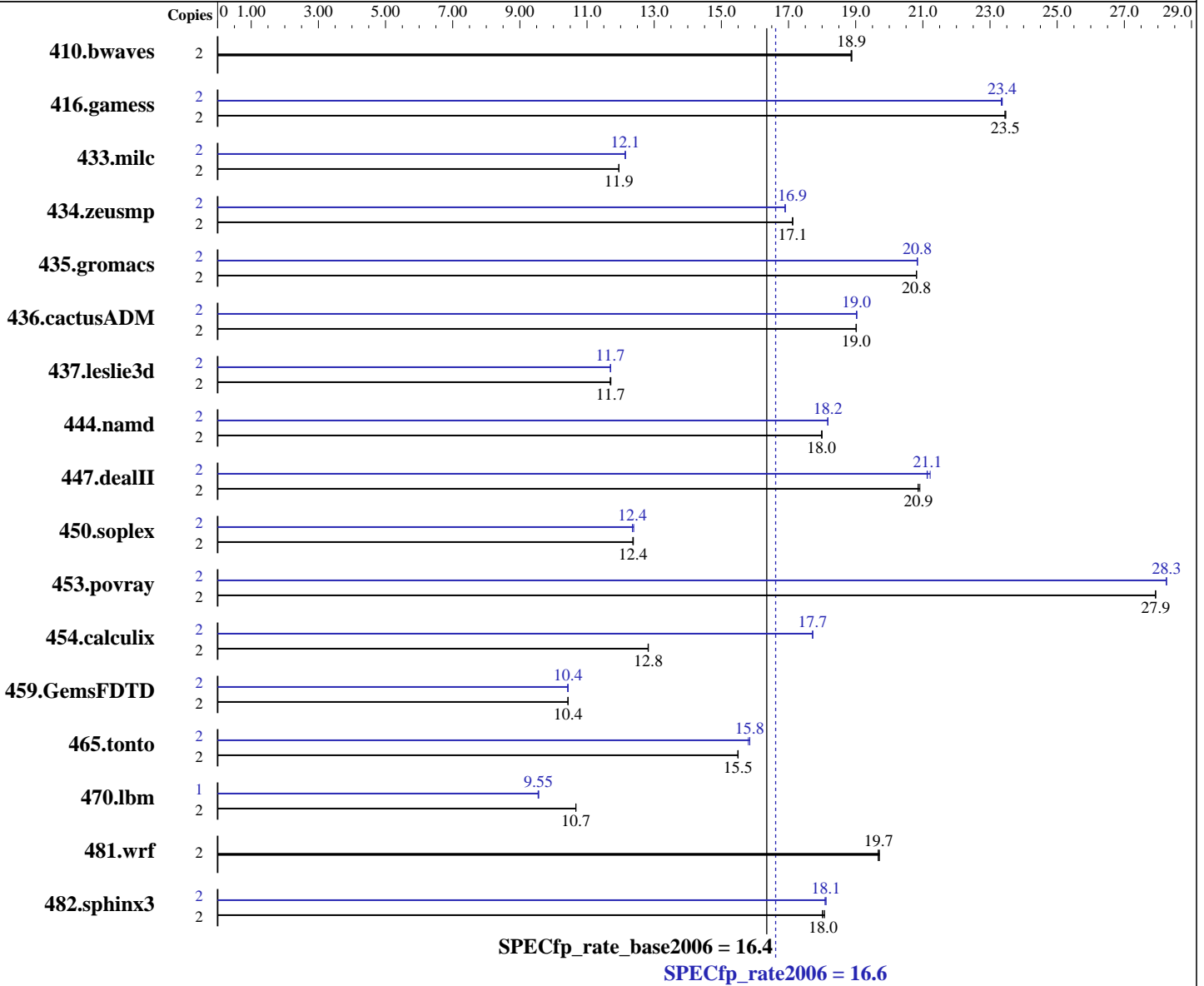
$SPECfp\_rate\_base2006 =$ 16.4

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

Test date: Aug-2008
Hardware Availability: Sep-2006
Software Availability: Nov-2007

Benchmark	Copies	Result
410.bwaves	2	18.9
416.gamess	2	23.4
416.gamess	2	23.5
433.milc	2	12.1
433.milc	2	11.9
434.zeusmp	2	16.9
434.zeusmp	2	17.1
435.gromacs	2	20.8
435.gromacs	2	20.8
436.cactusADM	2	19.0
436.cactusADM	2	19.0
437.leslie3d	2	11.7
437.leslie3d	2	11.7
444.namd	2	18.2
444.namd	2	18.0
447.dealII	2	21.1
447.dealII	2	20.9
450.soplex	2	12.4
450.soplex	2	12.4
453.povray	2	28.3
453.povray	2	27.9
454.calculix	2	17.7
454.calculix	2	12.8
459.GemsFDTD	2	10.4
459.GemsFDTD	2	10.4
465.tonto	2	15.8
465.tonto	2	15.5
470.lbm	1	9.55
470.lbm	2	10.7
481.wrf	2	19.7
482.sphinx3	2	18.1
482.sphinx3	2	18.0

SPECfp_rate_base2006 = 16.4

SPECfp_rate2006 = 16.6

Hardware
CPU Name: Intel Core Duo T2700
CPU Characteristics:
CPU MHz: 2333
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: 2 MB I+D on chip per chip
Continued on next page

Software
Operating System: Windows XP Professional SP2
Compiler: Intel C++ Compiler for IA32 version 10.1
Build 20070913 Package ID: w_cc_p_10.1.011
Intel Fortran Compiler for IA32 version 10.1
Build 20070913 Package ID: w_fc_p_10.1.011
Microsoft Visual Studio 2005 SP1 (for libraries)
Auto Parallel: No
File System: NTFS
System State: Default
Continued on next page

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L3 Cache:	None	Base Pointers:	32-bit
Other Cache:	None	Peak Pointers:	32-bit
Memory:	2 GB (2x1GB Micron PC2-5300 DDR2-667 CL5)	Other Software:	SmartHeap Library Version 8.1 from
Disk Subsystem:	Hitachi Travelstar HTS721010G9SA00 SATA 100GB 7200RPM		http://www.microquill.com/
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	**1440**	**18.9**	1441	18.9	1439	18.9	2	**1440**	**18.9**	1441	18.9	1439	18.9
416.gamess	2	1670	23.4	**1670**	**23.5**	1668	23.5	2	**1676**	**23.4**	1676	23.4	1678	23.3
433.milc	2	1536	12.0	1537	11.9	**1536**	**11.9**	2	1512	12.1	**1512**	**12.1**	1513	12.1
434.zeusmp	2	1063	17.1	**1063**	**17.1**	1063	17.1	2	1077	16.9	**1077**	**16.9**	1077	16.9
435.gromacs	2	686	20.8	**686**	**20.8**	686	20.8	2	**685**	**20.8**	685	20.8	686	20.8
436.cactusADM	2	**1257**	**19.0**	1257	19.0	1256	19.0	2	1256	19.0	1256	19.0	**1256**	**19.0**
437.leslie3d	2	**1606**	**11.7**	1608	11.7	1605	11.7	2	**1607**	**11.7**	1607	11.7	1606	11.7
444.namd	2	891	18.0	892	18.0	**892**	**18.0**	2	882	18.2	883	18.2	**883**	**18.2**
447.dealII	2	1097	20.9	1094	20.9	**1097**	**20.9**	2	1083	21.1	1078	21.2	**1083**	**21.1**
450.soplex	2	1349	12.4	**1348**	**12.4**	1347	12.4	2	1346	12.4	**1350**	**12.4**	1350	12.4
453.povray	2	381	27.9	381	27.9	**381**	**27.9**	2	377	28.3	377	28.3	**377**	**28.3**
454.calculix	2	1286	12.8	**1287**	**12.8**	1287	12.8	2	931	17.7	931	17.7	**931**	**17.7**
459.GemsFDTD	2	**2034**	**10.4**	2034	10.4	2033	10.4	2	2033	10.4	2036	10.4	**2034**	**10.4**
465.tonto	2	1270	15.5	1271	15.5	**1270**	**15.5**	2	**1242**	**15.8**	1242	15.8	1245	15.8
470.lbm	2	2576	10.7	**2576**	**10.7**	2576	10.7	1	**1438**	**9.55**	1440	9.54	1437	9.56
481.wrf	2	1136	19.7	**1135**	**19.7**	1134	19.7	2	1136	19.7	**1135**	**19.7**	1134	19.7
482.sphinx3	2	2157	18.1	2165	18.0	**2161**	**18.0**	2	2155	18.1	**2152**	**18.1**	2152	18.1

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

General Notes

    Binaries were built on Windows Vista32
    The following VS 2005 SP1 updates were applied: KB926601 and KB932232

Base Compiler Invocation

    C benchmarks:
        icl -Qvc8 -Qc99

    C++ benchmarks:
        icl -Qvc8

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Base Compiler Invocation (Continued)

Fortran benchmarks:
```
ifort
```

Benchmarks using both Fortran and C:
```
icl -Qvc8 -Qc99 ifort
```

Base Portability Flags

```
436.cactusADM: -Qlowercase /assume:underscore
     444.namd: -TP
    447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
   453.povray: -DSPEC_CPU_WINDOWS_ICL
  454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
      481.wrf: -DSPEC_CPU_WINDOWS_ICL
```

Base Optimization Flags

C benchmarks:
```
-QxP -Qipo -O3 -Qprec-div- /F1000000000
```

C++ benchmarks:
```
-QxP -Qipo -O3 -Qprec-div- -Qcxx_features /F1000000000 shlw32m.lib
          -link /FORCE:MULTIPLE
```

Fortran benchmarks:
```
-QxP -Qipo -O3 -Qprec-div- /F1000000000
```

Benchmarks using both Fortran and C:
```
-QxP -Qipo -O3 -Qprec-div- /F1000000000
```

Peak Compiler Invocation

C benchmarks:
```
icl -Qvc8 -Qc99
```

C++ benchmarks:
```
icl -Qvc8
```

Fortran benchmarks:
```
ifort
```

Benchmarks using both Fortran and C:
```
icl -Qvc8 -Qc99 ifort
```

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Peak Portability Flags

```
436.cactusADM: -Qlowercase /assume:underscore
   444.namd: -TP
  447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
  453.povray: -DSPEC_CPU_WINDOWS_ICL
 454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
     481.wrf: -DSPEC_CPU_WINDOWS_ICL
```

Peak Optimization Flags

C benchmarks:

```
433.milc: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Oa /F1000000000

470.lbm: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qscalar-rep-
         -Qprefetch /F1000000000

482.sphinx3: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 /F1000000000
```

C++ benchmarks:

```
444.namd: -QxP -Qipo -O3 -Qprec-div- -Oa -Qcxx_features
          /F1000000000 shlw32m.lib         -link /FORCE:MULTIPLE

447.dealII: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qprefetch
            -Qcxx_features /F1000000000 shlw32m.lib
                       -link /FORCE:MULTIPLE

450.soplex: -QxP -Qipo -O3 -Qprec-div- -Qcxx_features /F1000000000
            shlw32m.lib            -link /FORCE:MULTIPLE

453.povray: -QxP -Qipo -O3 -Qprec-div- -Qunroll4 -Qansi-alias
            -Qcxx_features /F1000000000 shlw32m.lib
                       -link /FORCE:MULTIPLE
```

Fortran benchmarks:

```
410.bwaves: basepeak = yes

416.gamess: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qansi-alias
            -Qscalar-rep- /F1000000000

434.zeusmp: -QxP -O2 -Qprec-div- -Qunroll0 -Qscalar-rep- /F1000000000

437.leslie3d: -QxP -Qipo -O3 -Qprec-div- -Qprefetch /F1000000000

459.GemsFDTD: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qprefetch
              /F1000000000
```

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Peak Optimization Flags (Continued)

465.tonto: `-QxP -Qipo -O3 -Qprec-div- -Qunroll4 -Qauto /F1000000000`

Benchmarks using both Fortran and C:

435.gromacs: `-QxP -Qipo -O3 -Qprec-div- -Oa -Qprefetch /F1000000000`

436.cactusADM: `-QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qprefetch /F1000000000`

454.calculix: `-QxP -Qipo -O3 -Qprec-div- -Qunroll-aggressive /F1000000000`

481.wrf: `basepeak = yes`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-revC.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-revC.xml

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 18:43:42 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 30 September 2008.