SPEC® CFP2006 Result

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Intel Corporation

Lenovo Thinkpad T61

SPECfp®_rate2006 =   23.9
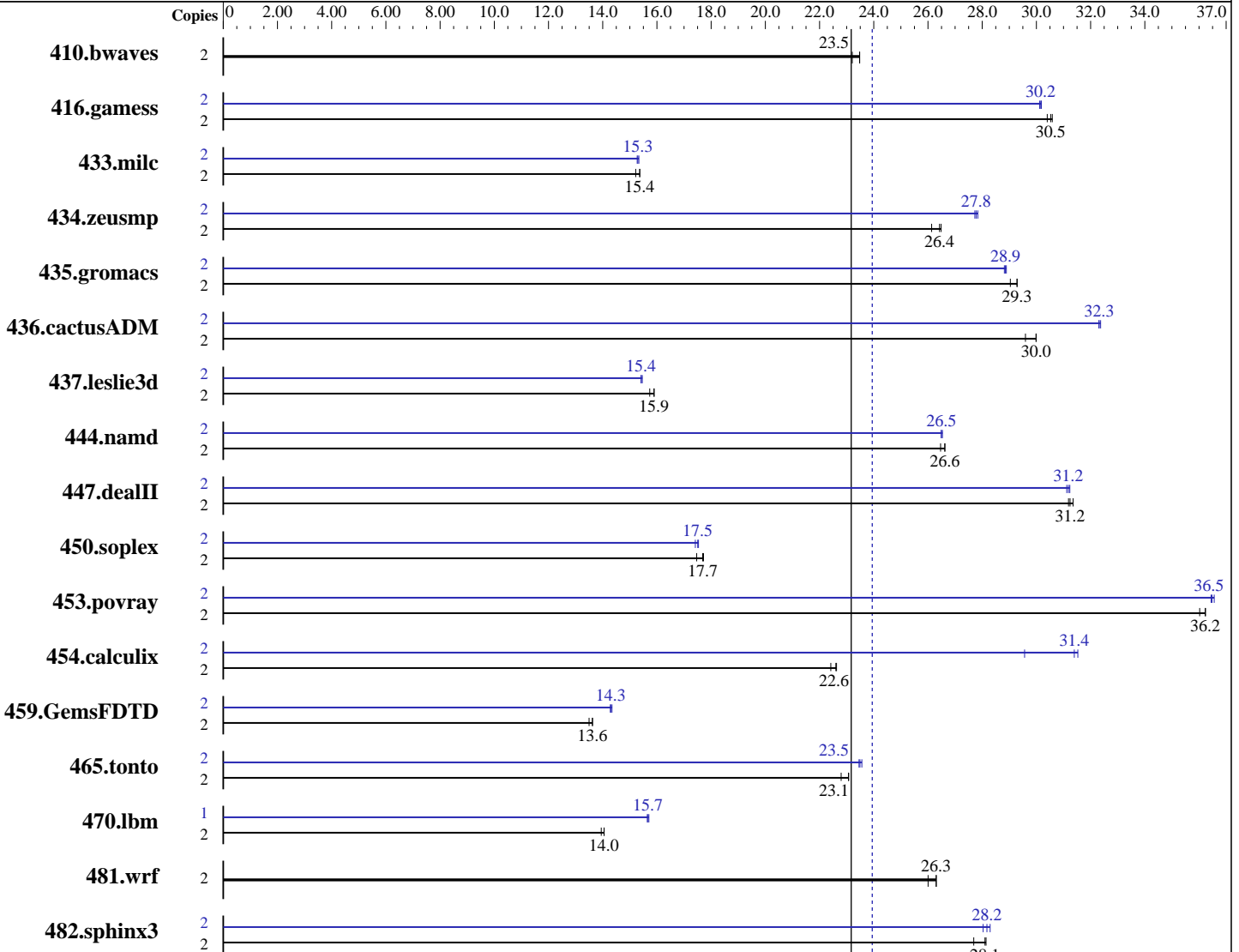
SPECfp_rate_base2006 = 23.2

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

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

Benchmark	Copies	Result
410.bwaves	2	23.5
416.gamess	2 / 2	30.2 / 30.5
433.milc	2 / 2	15.3 / 15.4
434.zeusmp	2 / 2	27.8 / 26.4
435.gromacs	2 / 2	28.9 / 29.3
436.cactusADM	2 / 2	32.3 / 30.0
437.leslie3d	2 / 2	15.4 / 15.9
444.namd	2 / 2	26.5 / 26.6
447.dealII	2 / 2	31.2 / 31.2
450.soplex	2 / 2	17.5 / 17.7
453.povray	2 / 2	36.5 / 36.2
454.calculix	2 / 2	31.4 / 22.6
459.GemsFDTD	2 / 2	14.3 / 13.6
465.tonto	2 / 2	23.5 / 23.1
470.lbm	1 / 2	15.7 / 14.0
481.wrf	2	26.3
482.sphinx3	2 / 2	28.2 / 28.1

SPECfp_rate_base2006 = 23.2

SPECfp_rate2006 = 23.9

Hardware

CPU Name:	Intel Core 2 Duo T7800
CPU Characteristics:	
CPU MHz:	2600
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
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

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L3 Cache:	None
Other Cache:	None
Memory:	2 GB (2x1GB Micron PC2-6400 DDR2-800 CL5)
Disk Subsystem:	Hitachi Travelstar HTS721010G9SA00 SATA 100GB 7200RPM
Other Hardware:	None

Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	SmartHeap Library Version 8.1 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	**1158**	**23.5**	1158	23.5	1171	23.2	2	**1158**	**23.5**	1158	23.5	1171	23.2
416.gamess	2	**1283**	**30.5**	1280	30.6	1288	30.4	2	1300	30.1	**1298**	**30.2**	1297	30.2
433.milc	2	**1195**	**15.4**	1195	15.4	1206	15.2	2	**1200**	**15.3**	1202	15.3	1197	15.3
434.zeusmp	2	**689**	**26.4**	687	26.5	696	26.1	2	656	27.7	**655**	**27.8**	654	27.8
435.gromacs	2	488	29.3	**488**	**29.3**	492	29.0	2	**495**	**28.9**	496	28.8	494	28.9
436.cactusADM	2	797	30.0	**797**	**30.0**	808	29.6	2	**740**	**32.3**	740	32.3	738	32.4
437.leslie3d	2	**1183**	**15.9**	1183	15.9	1195	15.7	2	**1219**	**15.4**	1220	15.4	1216	15.5
444.namd	2	**603**	**26.6**	602	26.6	606	26.5	2	**605**	**26.5**	606	26.5	605	26.5
447.dealII	2	**732**	**31.2**	730	31.4	734	31.2	2	**734**	**31.2**	735	31.1	733	31.2
450.soplex	2	**943**	**17.7**	941	17.7	955	17.5	2	958	17.4	951	17.5	**953**	**17.5**
453.povray	2	**294**	**36.2**	294	36.2	295	36.0	2	292	36.4	**292**	**36.5**	291	36.6
454.calculix	2	**730**	**22.6**	729	22.6	736	22.4	2	558	29.6	**526**	**31.4**	523	31.5
459.GemsFDTD	2	**1558**	**13.6**	1558	13.6	1572	13.5	2	1486	14.3	**1484**	**14.3**	1480	14.3
465.tonto	2	853	23.1	**853**	**23.1**	863	22.8	2	839	23.5	**838**	**23.5**	835	23.6
470.lbm	2	**1956**	**14.0**	1956	14.1	1971	13.9	1	878	15.6	**877**	**15.7**	875	15.7
481.wrf	2	**849**	**26.3**	849	26.3	859	26.0	2	**849**	**26.3**	849	26.3	859	26.0
482.sphinx3	2	**1387**	**28.1**	1385	28.1	1408	27.7	2	**1384**	**28.2**	1390	28.0	1378	28.3

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:
```
-fast /F1000000000
```

C++ benchmarks:
```
-fast -Qcxx_features /F1000000000 shlw32m.lib
          -link /FORCE:MULTIPLE
```

Fortran benchmarks:
```
-fast /F1000000000
```

Benchmarks using both Fortran and C:
```
-fast /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: -fast -Qunroll2 -Oa /F1000000000

   470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000

 482.sphinx3: -fast -Qunroll2 /F1000000000
```

C++ benchmarks:

```
   444.namd: -fast -Oa -Qcxx_features /F1000000000 shlw32m.lib
             -link /FORCE:MULTIPLE

  447.dealII: -fast -Qunroll2 -Qprefetch -Qcxx_features /F1000000000
             shlw32m.lib           -link /FORCE:MULTIPLE

  450.soplex: -fast -Qcxx_features /F1000000000 shlw32m.lib
             -link /FORCE:MULTIPLE

  453.povray: -fast -Qunroll4 -Qansi-alias -Qcxx_features /F1000000000
             shlw32m.lib           -link /FORCE:MULTIPLE
```

Fortran benchmarks:

```
  410.bwaves: basepeak = yes

  416.gamess: -fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep-
             /F1000000000

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

  437.leslie3d: -fast -Qprefetch /F1000000000

 459.GemsFDTD: -fast -Qunroll2 -Ob0 -Qprefetch /F1000000000

   465.tonto: -fast -Qunroll4 -Qauto /F1000000000
```

Benchmarks using both Fortran and C:

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Peak Optimization Flags (Continued)

435.gromacs: `-fast -Oa -Qprefetch /F1000000000`

436.cactusADM: `-fast -Qunroll2 -Qprefetch /F1000000000`

454.calculix: `-fast -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`

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