SPEC® CFP2006 Result

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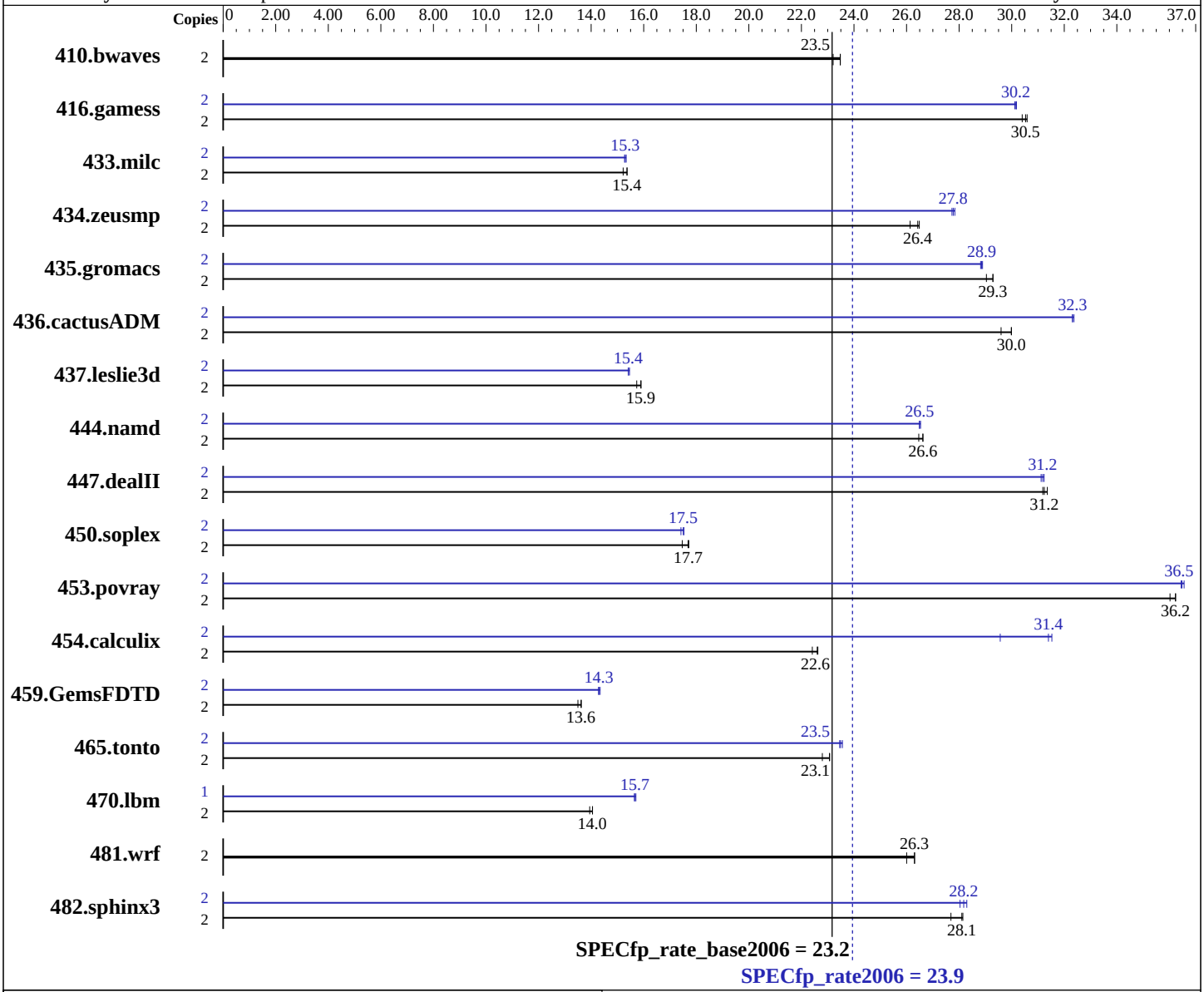
Intel Corporation
Lenovo Thinkpad T61

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



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

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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
```

Continued on next page

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

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:

Continued on next page

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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For other inquiries, please contact webmaster@spec.org.

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