SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

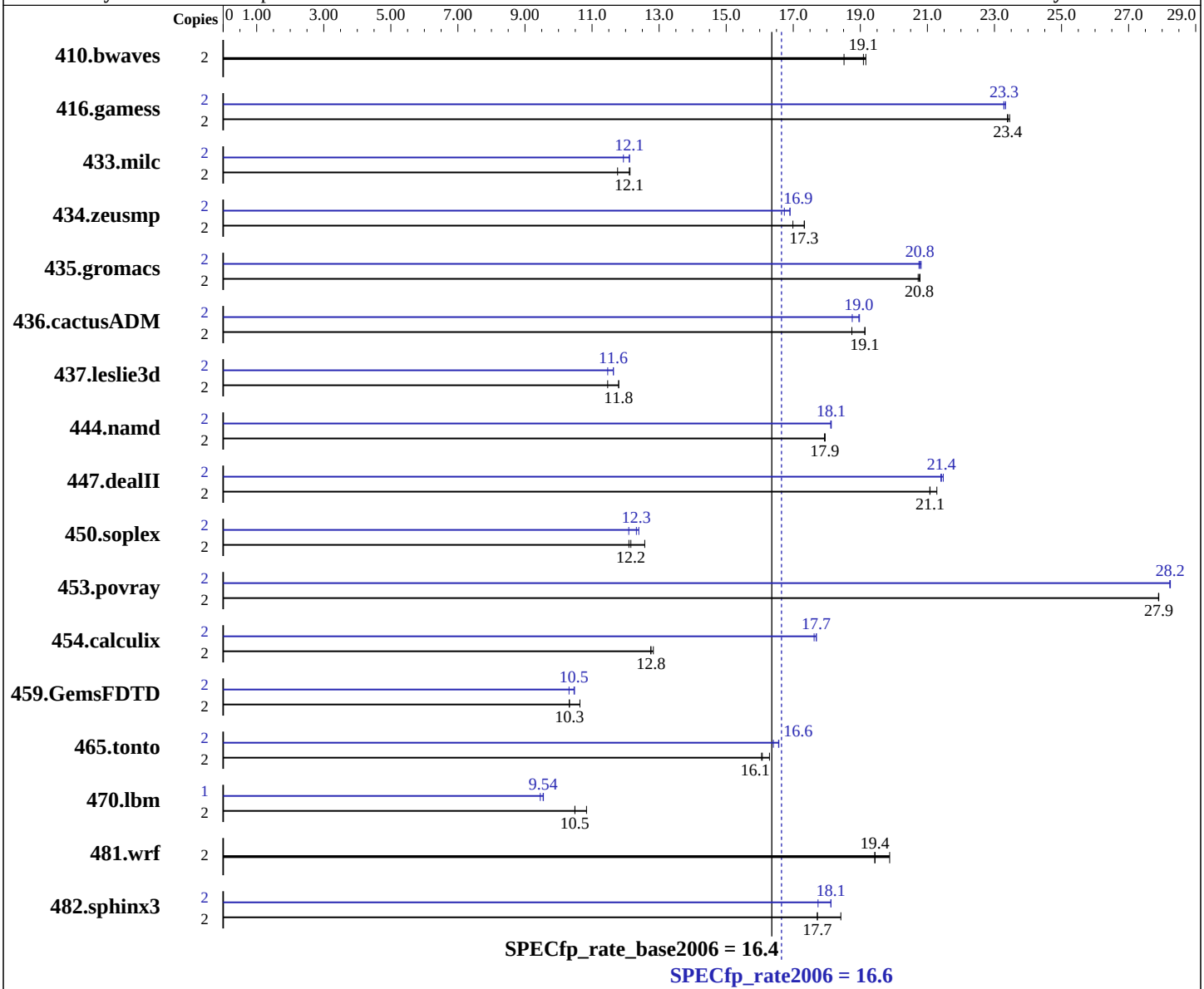
Lenovo ThinkPad T60 (Intel Core Duo T2700)

SPECfp®_rate2006 = 16.6

SPECfp_rate_base2006 = 16.4

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

Test date: Dec-2007
Hardware Availability: Jan-2008
Software Availability: Nov-2007



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

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Software

Operating System:	Windows Vista Ultimate (32-bit)
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 Hynix DDR2-667 CL5)
Disk Subsystem: Hitachi 100 GB SATA, 7200 RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None
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	**1424**	**19.1**	1468	18.5	1418	19.2	2	**1424**	**19.1**	1468	18.5	1418	19.2
416.gamess	2	**1674**	**23.4**	1675	23.4	1670	23.5	2	1678	23.3	**1682**	**23.3**	1682	23.3
433.milc	2	**1516**	**12.1**	1561	11.8	1513	12.1	2	1515	12.1	**1516**	**12.1**	1538	11.9
434.zeusmp	2	1050	17.3	1071	17.0	**1050**	**17.3**	2	**1077**	**16.9**	1077	16.9	1088	16.7
435.gromacs	2	**688**	**20.8**	689	20.7	687	20.8	2	686	20.8	**687**	**20.8**	688	20.7
436.cactusADM	2	1249	19.1	1275	18.7	**1249**	**19.1**	2	1260	19.0	**1261**	**19.0**	1274	18.8
437.leslie3d	2	**1594**	**11.8**	1640	11.5	1594	11.8	2	**1616**	**11.6**	1616	11.6	1639	11.5
444.namd	2	**894**	**17.9**	895	17.9	894	17.9	2	885	18.1	**885**	**18.1**	885	18.1
447.dealII	2	1075	21.3	1086	21.1	**1085**	**21.1**	2	**1068**	**21.4**	1066	21.5	1069	21.4
450.soplex	2	1327	12.6	1379	12.1	**1372**	**12.2**	2	1346	12.4	**1354**	**12.3**	1379	12.1
453.povray	2	381	27.9	381	27.9	**381**	**27.9**	2	377	28.2	**377**	**28.2**	377	28.2
454.calculix	2	1286	12.8	1294	12.8	**1293**	**12.8**	2	933	17.7	**933**	**17.7**	936	17.6
459.GemsFDTD	2	1995	10.6	**2055**	**10.3**	2056	10.3	2	**2028**	**10.5**	2025	10.5	2057	10.3
465.tonto	2	1208	16.3	1226	16.1	**1224**	**16.1**	2	**1188**	**16.6**	1188	16.6	1199	16.4
470.lbm	2	2536	10.8	2620	10.5	**2620**	**10.5**	1	**1440**	**9.54**	1439	9.55	1453	9.46
481.wrf	2	1124	19.9	1150	19.4	**1149**	**19.4**	2	1124	19.9	1150	19.4	**1149**	**19.4**
482.sphinx3	2	2116	18.4	2200	17.7	**2200**	**17.7**	2	**2151**	**18.1**	2151	18.1	2197	17.7

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

General Notes

```
The system bus runs at 667 MHz
Binaries were built on Windows Vista (32-bit)
The following VS 2005 SP1 updates were applied: KB926601 and KB932232
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to physical,0
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc8 -Qc99
```

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Base Compiler Invocation (Continued)

C++ benchmarks:
icl -Qvc8

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

Continued on next page

Peak Compiler Invocation (Continued)

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: -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

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Peak Optimization Flags (Continued)

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`

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-ia32-intel64-linux-flags.20090714.09.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.09.xml`

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