SPEC® CFP2006 Result

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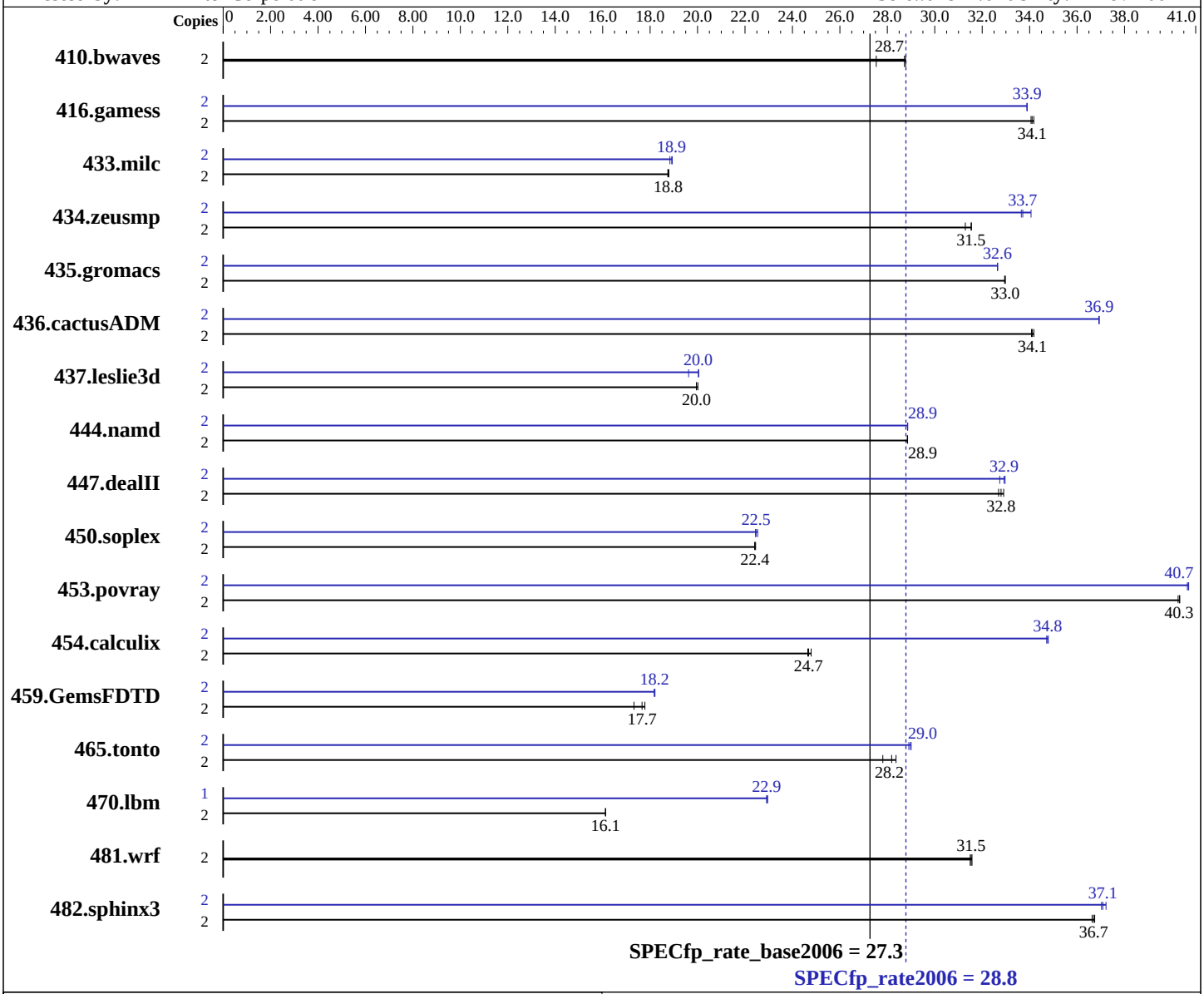
Intel Corporation
Lenovo Thinkpad T400

SPECfp®_rate2006 = 28.8

SPECfp_rate_base2006 = 27.3

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

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



Hardware

CPU Name:	Intel Core 2 Duo T9600
CPU Characteristics:	
CPU MHz:	2800
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:	6 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 PC3-8500 DDR3-1066 CL7)
Disk Subsystem: Hitachi Travelstar HTS722020K9SA00 SATA 200GB 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	987	27.5	**946**	**28.7**	945	28.8	2	987	27.5	**946**	**28.7**	945	28.8
416.gamess	2	1150	34.1	1146	34.2	**1148**	**34.1**	2	1156	33.9	1155	33.9	**1155**	**33.9**
433.milc	2	977	18.8	**979**	**18.8**	979	18.7	2	**971**	**18.9**	975	18.8	970	18.9
434.zeusmp	2	**577**	**31.5**	577	31.5	582	31.3	2	541	33.6	534	34.1	**540**	**33.7**
435.gromacs	2	**433**	**33.0**	433	32.9	433	33.0	2	437	32.6	437	32.6	**437**	**32.6**
436.cactusADM	2	699	34.2	**701**	**34.1**	701	34.1	2	647	36.9	647	36.9	**647**	**36.9**
437.leslie3d	2	939	20.0	942	20.0	**942**	**20.0**	2	938	20.0	958	19.6	**939**	**20.0**
444.namd	2	556	28.9	556	28.8	**556**	**28.9**	2	556	28.9	**556**	**28.9**	556	28.9
447.dealII	2	700	32.7	695	32.9	**698**	**32.8**	2	699	32.7	694	33.0	**695**	**32.9**
450.soplex	2	**744**	**22.4**	743	22.4	744	22.4	2	743	22.4	740	22.5	**742**	**22.5**
453.povray	2	264	40.3	**264**	**40.3**	264	40.3	2	262	40.6	261	40.7	**262**	**40.7**
454.calculix	2	666	24.8	669	24.6	**669**	**24.7**	2	**475**	**34.8**	474	34.8	475	34.7
459.GemsFDTD	2	1193	17.8	**1202**	**17.7**	1225	17.3	2	1168	18.2	1166	18.2	**1166**	**18.2**
465.tonto	2	694	28.4	**698**	**28.2**	708	27.8	2	679	29.0	681	28.9	**679**	**29.0**
470.lbm	2	1705	16.1	1704	16.1	**1705**	**16.1**	1	**600**	**22.9**	600	22.9	599	23.0
481.wrf	2	708	31.6	**708**	**31.5**	709	31.5	2	708	31.6	**708**	**31.5**	709	31.5
482.sphinx3	2	1061	36.7	**1062**	**36.7**	1064	36.6	2	1047	37.2	**1051**	**37.1**	1053	37.0

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

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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