SPEC® CFP2006 Result

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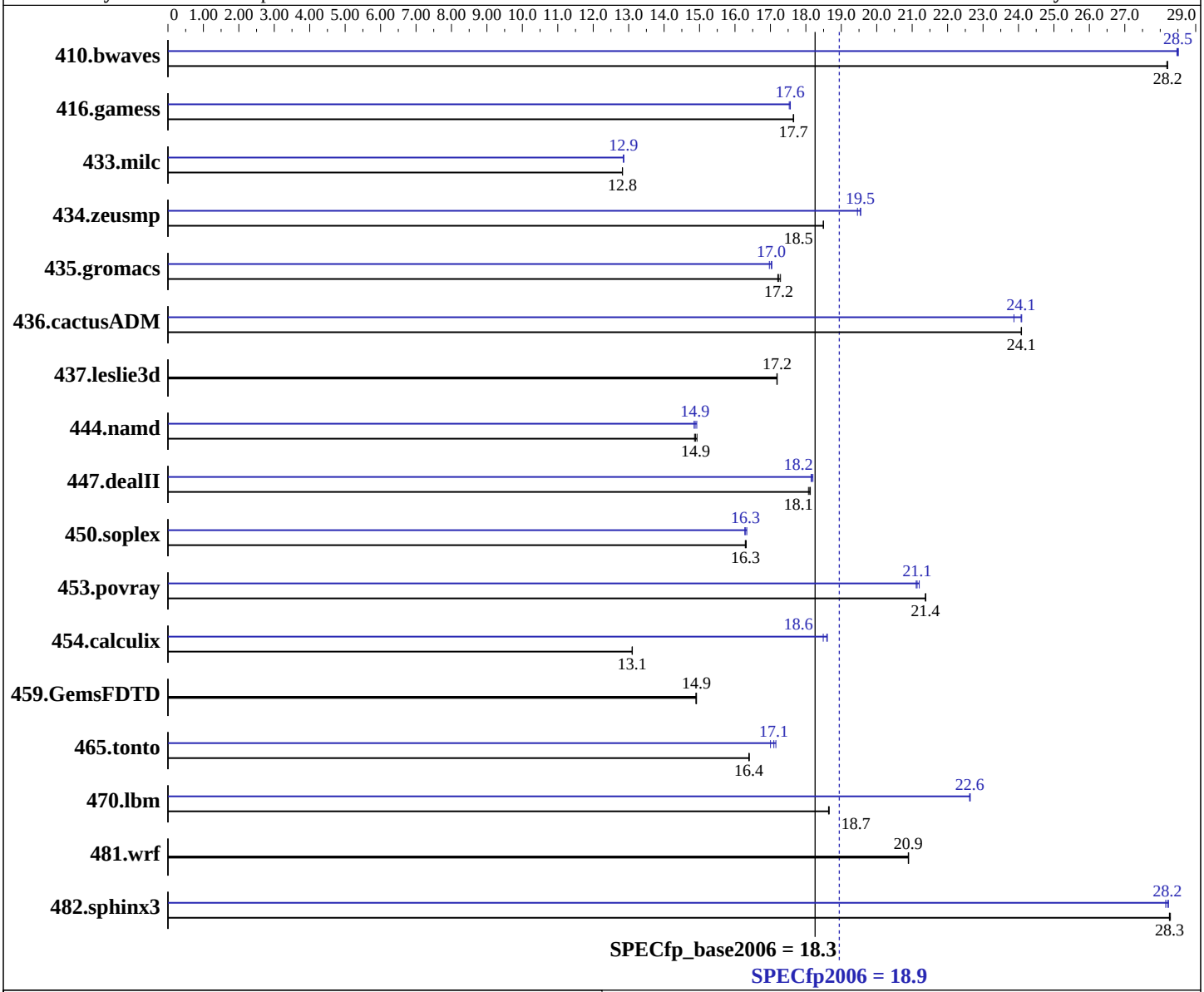
Intel Corporation
Lenovo Thinkpad T400

SPECfp®2006 = 18.9

SPECfp_base2006 = 18.3

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:	Yes
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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	482	28.2	**482**	**28.2**	482	28.2	477	28.5	**477**	**28.5**	477	28.5
416.gamess	1110	17.6	**1109**	**17.7**	1109	17.7	1117	17.5	1115	17.6	**1115**	**17.6**
433.milc	**716**	**12.8**	716	12.8	716	12.8	714	12.9	**714**	**12.9**	714	12.9
434.zeusmp	492	18.5	492	18.5	**492**	**18.5**	466	19.5	**466**	**19.5**	468	19.5
435.gromacs	413	17.3	415	17.2	**414**	**17.2**	**419**	**17.0**	421	17.0	419	17.0
436.cactusADM	496	24.1	496	24.1	**496**	**24.1**	501	23.9	496	24.1	**496**	**24.1**
437.leslie3d	**547**	**17.2**	547	17.2	547	17.2	**547**	**17.2**	547	17.2	547	17.2
444.namd	537	14.9	540	14.9	**539**	**14.9**	**539**	**14.9**	537	14.9	540	14.8
447.dealII	633	18.1	**632**	**18.1**	631	18.1	630	18.1	629	18.2	**630**	**18.2**
450.soplex	**512**	**16.3**	512	16.3	511	16.3	512	16.3	**512**	**16.3**	511	16.3
453.povray	249	21.4	**249**	**21.4**	249	21.4	**252**	**21.1**	251	21.2	252	21.1
454.calculix	630	13.1	630	13.1	**630**	**13.1**	446	18.5	**444**	**18.6**	443	18.6
459.GemsFDTD	712	14.9	711	14.9	**712**	**14.9**	712	14.9	711	14.9	**712**	**14.9**
465.tonto	600	16.4	600	16.4	**600**	**16.4**	579	17.0	**576**	**17.1**	574	17.2
470.lbm	736	18.7	737	18.6	**737**	**18.7**	607	22.6	607	22.6	**607**	**22.6**
481.wrf	534	20.9	535	20.9	**535**	**20.9**	534	20.9	535	20.9	**535**	**20.9**
482.sphinx3	689	28.3	**690**	**28.3**	690	28.3	**691**	**28.2**	690	28.2	692	28.2

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 -Qparallel /F1000000000 libguide40.lib

C++ benchmarks:
-fast -Qparallel -Qcxx_features /F1000000000 shlw32m.lib
libguide40.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
-fast -Qparallel /F1000000000 libguide40.lib

Benchmarks using both Fortran and C:
-fast -Qparallel /F1000000000 libguide40.lib

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 libguide40.lib

470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000 libguide40.lib

482.sphinx3: -fast -Qunroll2 /F1000000000 libguide40.lib

C++ benchmarks:

444.namd: -fast -Oa -Qcxx_features /F1000000000 shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

447.dealII: -fast -Qunroll2 -Qprefetch -Qcxx_features /F1000000000 shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

450.soplex: -fast -Qparallel -Qcxx_features /F1000000000 shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

453.povray: -fast -Qunroll4 -Qcxx_features /F1000000000 shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -fast -Qparallel -Qprefetch /F1000000000 libguide40.lib

416.gamess: -fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep- /F1000000000 libguide40.lib

434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll0 -Qscalar-rep- /F1000000000 libguide40.lib

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -fast -Qunroll4 -Qauto /F1000000000 libguide40.lib

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Peak Optimization Flags (Continued)

Benchmarks using both Fortran and C:

435.gromacs: `-fast -Oa -Qprefetch /F1000000000 libguide40.lib`

436.cactusADM: `-fast -Qunroll2 -Qparallel -Qprefetch /F1000000000 libguide40.lib`

454.calculix: `-fast -Qunroll-aggressive /F1000000000 libguide40.lib`

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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