SPEC® CFP2006 Result

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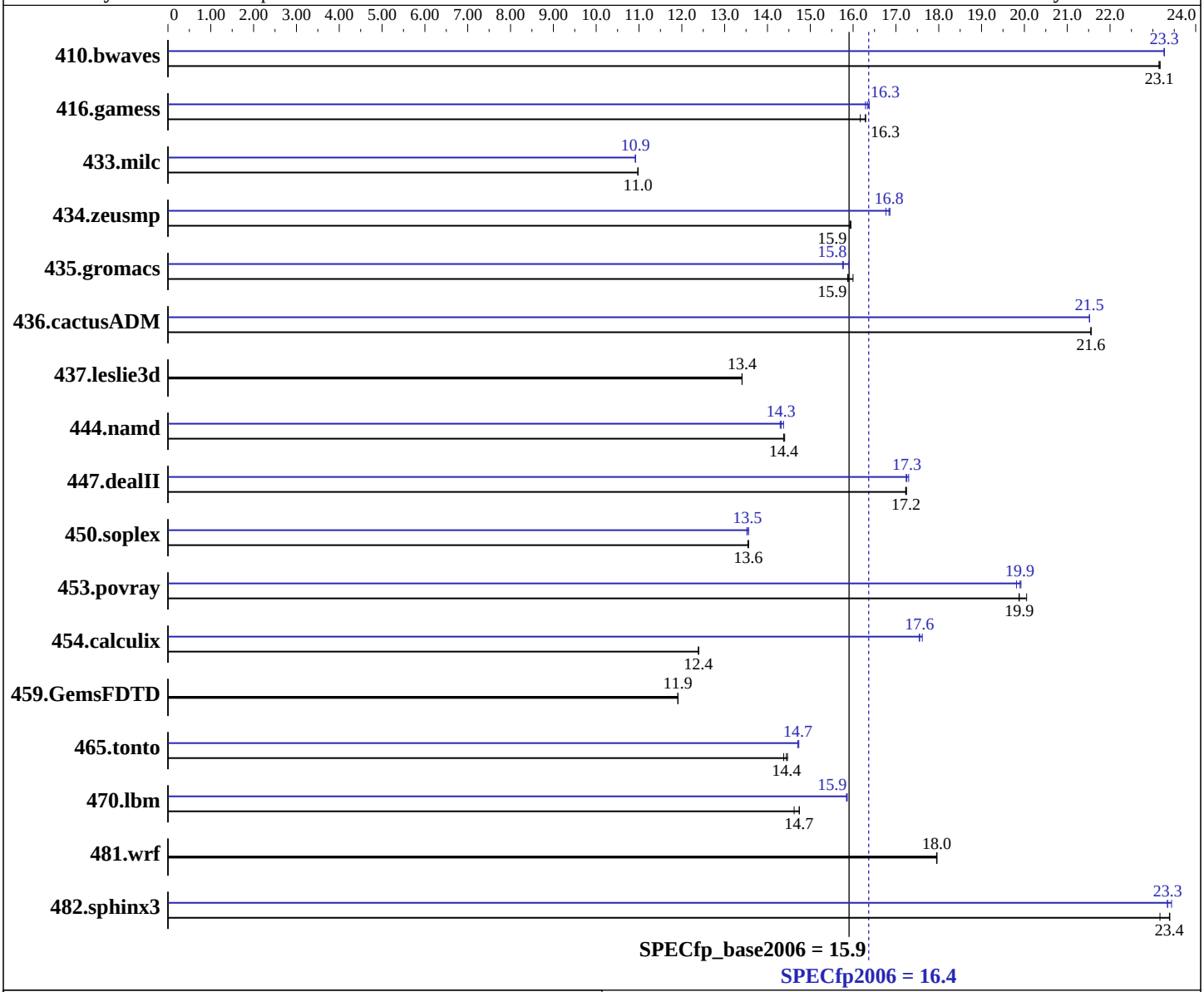
Intel Corporation
Lenovo Thinkpad T61

SPECfp®2006 = 16.4

SPECfp_base2006 = 15.9

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:	Yes
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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	587	23.2	**587**	**23.1**	587	23.1	584	23.3	**584**	**23.3**	584	23.3
416.gamess	**1202**	**16.3**	1211	16.2	1202	16.3	1202	16.3	**1199**	**16.3**	1196	16.4
433.milc	**836**	**11.0**	836	11.0	837	11.0	841	10.9	**841**	**10.9**	841	10.9
434.zeusmp	**571**	**15.9**	571	15.9	571	15.9	543	16.8	540	16.9	**540**	**16.8**
435.gromacs	450	15.9	**449**	**15.9**	446	16.0	449	15.9	453	15.8	**453**	**15.8**
436.cactusADM	554	21.6	**554**	**21.6**	554	21.6	555	21.5	555	21.5	**555**	**21.5**
437.leslie3d	701	13.4	**701**	**13.4**	701	13.4	701	13.4	**701**	**13.4**	701	13.4
444.namd	**558**	**14.4**	558	14.4	557	14.4	558	14.4	**560**	**14.3**	561	14.3
447.dealII	664	17.2	663	17.2	**664**	**17.2**	661	17.3	**663**	**17.3**	664	17.2
450.soplex	**615**	**13.6**	616	13.5	615	13.6	615	13.6	617	13.5	**616**	**13.5**
453.povray	**268**	**19.9**	268	19.9	265	20.1	268	19.8	**267**	**19.9**	267	19.9
454.calculix	**666**	**12.4**	666	12.4	666	12.4	468	17.6	470	17.5	**470**	**17.6**
459.GemsFDTD	891	11.9	**891**	**11.9**	891	11.9	891	11.9	**891**	**11.9**	891	11.9
465.tonto	684	14.4	**681**	**14.4**	680	14.5	668	14.7	669	14.7	**669**	**14.7**
470.lbm	940	14.6	932	14.7	**932**	**14.7**	867	15.8	**866**	**15.9**	866	15.9
481.wrf	622	17.9	622	18.0	**622**	**18.0**	622	17.9	622	18.0	**622**	**18.0**
482.sphinx3	841	23.2	833	23.4	**833**	**23.4**	832	23.4	835	23.3	**835**	**23.3**

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 -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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