



SPEC® CFP2006 Result

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Intel Corporation Lenovo Thinkpad T60

SPECfp®2006 = 10.8

SPECfp_base2006 = 10.6

CPU2006 license: 13

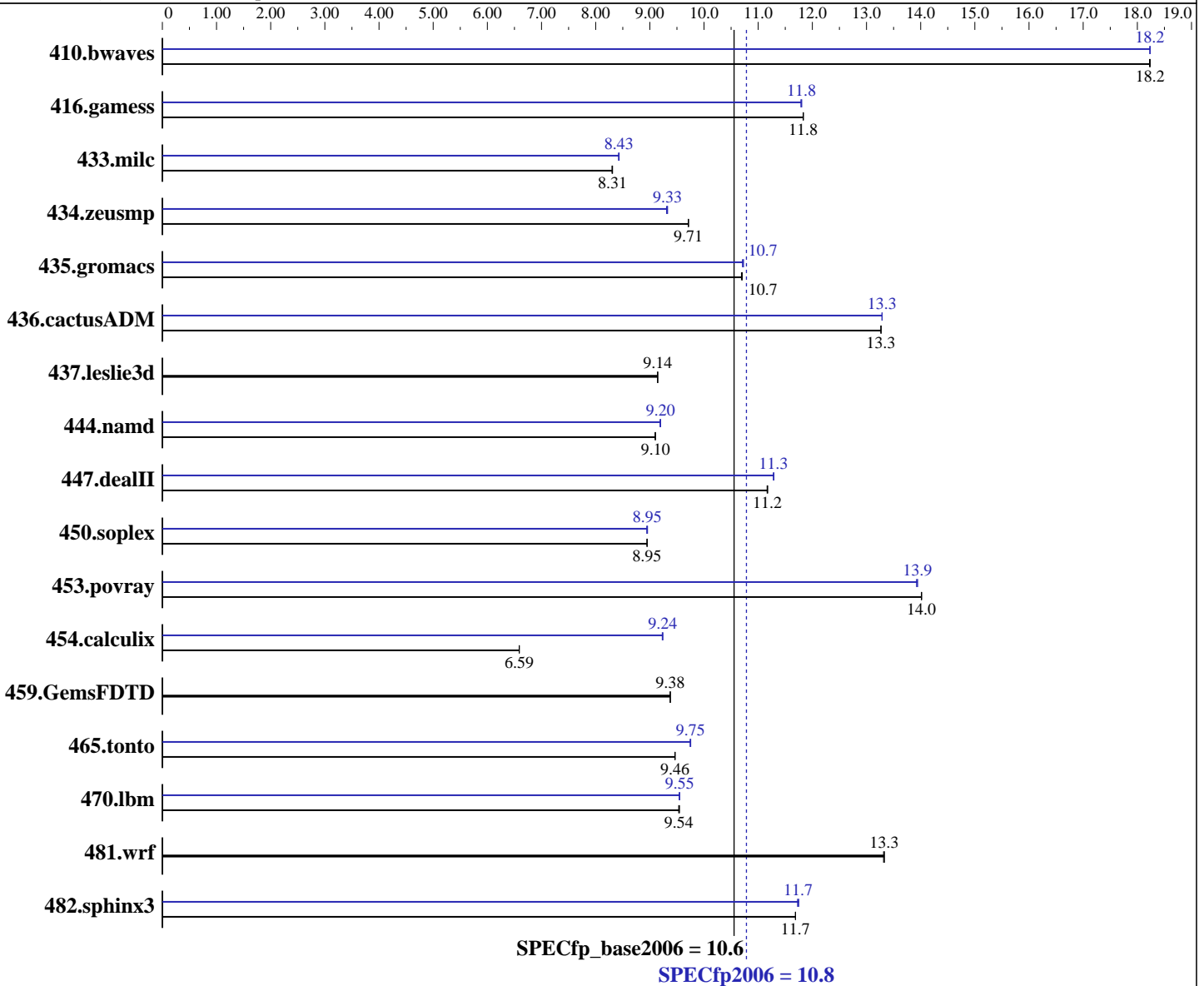
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Aug-2008

Hardware Availability: Sep-2006

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 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 PC2-5300 DDR2-667 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	745	18.2	745	18.2	746	18.2	746	18.2	745	18.2	745	18.2
416.gamess	1655	11.8	1655	11.8	1655	11.8	1659	11.8	1661	11.8	1659	11.8
433.milc	1106	8.30	1105	8.31	1104	8.31	1089	8.43	1090	8.42	1089	8.43
434.zeusmp	937	9.71	937	9.71	937	9.71	976	9.33	978	9.31	976	9.33
435.gromacs	667	10.7	668	10.7	667	10.7	666	10.7	667	10.7	666	10.7
436.cactusADM	901	13.3	901	13.3	901	13.3	899	13.3	899	13.3	899	13.3
437.leslie3d	1028	9.14	1028	9.14	1028	9.15	1028	9.14	1028	9.14	1028	9.15
444.namd	881	9.10	882	9.10	881	9.10	872	9.20	873	9.19	872	9.20
447.dealII	1024	11.2	1025	11.2	1024	11.2	1014	11.3	1014	11.3	1013	11.3
450.soplex	932	8.95	932	8.95	932	8.95	932	8.95	933	8.94	931	8.96
453.povray	380	14.0	380	14.0	380	14.0	382	13.9	382	13.9	382	13.9
454.calculix	1252	6.59	1252	6.59	1252	6.59	893	9.24	894	9.23	893	9.24
459.GemsFDTD	1131	9.38	1131	9.38	1132	9.38	1131	9.38	1131	9.38	1132	9.38
465.tonto	1040	9.46	1040	9.46	1039	9.47	1009	9.76	1010	9.74	1009	9.75
470.lbm	1439	9.55	1441	9.54	1441	9.53	1439	9.55	1440	9.54	1439	9.55
481.wrf	838	13.3	838	13.3	839	13.3	838	13.3	838	13.3	839	13.3
482.sphinx3	1667	11.7	1668	11.7	1668	11.7	1660	11.7	1662	11.7	1659	11.7

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:
-QxP -Qipo -O3 -Qprec-div- -Qparallel /F1000000000 libguide40.lib

C++ benchmarks:
-QxP -Qipo -O3 -Qprec-div- -Qparallel -Qcxx_features /F1000000000
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
-QxP -Qipo -O3 -Qprec-div- -Qparallel /F1000000000 libguide40.lib

Benchmarks using both Fortran and C:
-QxP -Qipo -O3 -Qprec-div- -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



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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
libguide40.lib
470.lbm: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qscalar-rep-
-Qprefetch /F1000000000 libguide40.lib
482.sphinx3: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 /F1000000000
libguide40.lib

C++ benchmarks:

444.namd: -QxP -Qipo -O3 -Qprec-div- -Oa -Qcxx_features
/F1000000000 shlw32m.lib libguide40.lib
-link /FORCE:MULTIPLE
447.dealII: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qprefetch
-Qcxx_features /F1000000000 shlw32m.lib libguide40.lib
-link /FORCE:MULTIPLE
450.soplex: -QxP -Qipo -O3 -Qprec-div- -Qparallel -Qcxx_features
/F1000000000 shlw32m.lib libguide40.lib
-link /FORCE:MULTIPLE
453.povray: -QxP -Qipo -O3 -Qprec-div- -Qunroll4 -Qcxx_features
/F1000000000 shlw32m.lib libguide40.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -QxP -Qipo -O3 -Qprec-div- -Qparallel -Qprefetch
/F1000000000 libguide40.lib
416.gamess: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qansi-alias
-Qscalar-rep- /F1000000000 libguide40.lib
434.zeusmp: -QxP -O2 -Qprec-div- -Qunroll10 -Qscalar-rep- /F1000000000
libguide40.lib

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Peak Optimization Flags (Continued)

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -QxP -Qipo -O3 -Qprec-div- -Qunroll4 -Qauto /F1000000000
libguide40.lib

Benchmarks using both Fortran and C:

435.gromacs: -QxP -Qipo -O3 -Qprec-div- -Oa -Qprefetch /F1000000000
libguide40.lib

436.cactusADM: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qparallel
-Qprefetch /F1000000000 libguide40.lib

454.calculix: -QxP -Qipo -O3 -Qprec-div- -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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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