



SPEC® CFP2006 Result

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Intel Corporation Lenovo Thinkpad T400

SPECfp®2006 = 18.9

SPECfp_base2006 = 18.3

CPU2006 license: 13

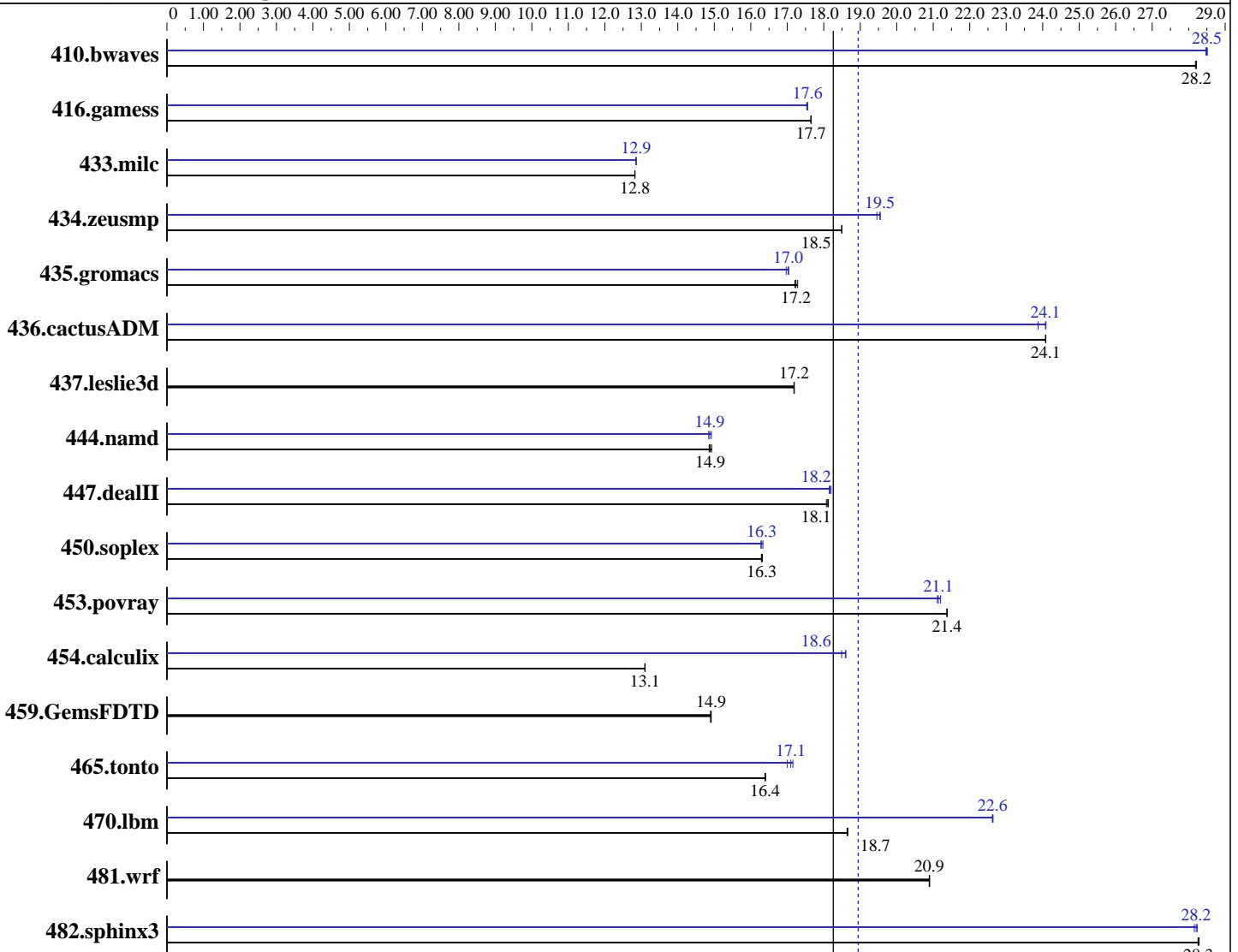
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Aug-2008

Hardware Availability: Sep-2008

Software Availability: Nov-2007



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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



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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: -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- -Qunroll10 -Qscalar-rep- /F1000000000
libguide40.lib
437.leslie3d: basepeak = yes
459.GemsFDTD: basepeak = yes
465.tonto: -fast -Qunroll14 -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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