



SPEC® CFP2006 Result

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Intel Corporation

SPECfp®_rate2006 = 31.2

Lenovo T400 (Intel Core 2 Duo T9900)

SPECfp_rate_base2006 = 29.7

CPU2006 license: 13

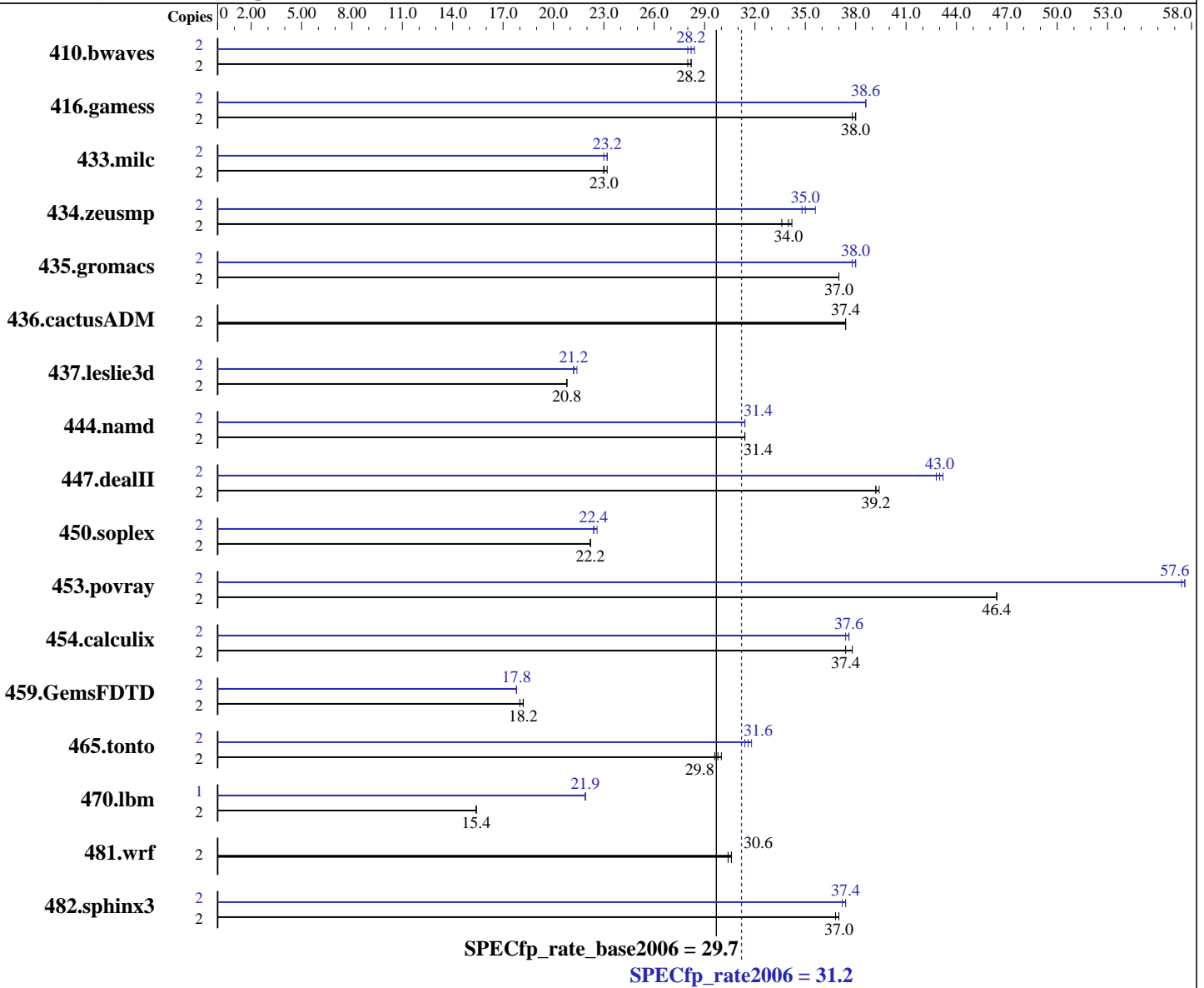
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Mar-2009

Hardware Availability: Mar-2009

Software Availability: Nov-2008



Hardware

CPU Name: Intel Core 2 Duo T9900
 CPU Characteristics: 3066
 CPU MHz: Integrated
 FPU: 2 cores, 1 chip, 2 cores/chip
 CPU(s) enabled: 1 chip
 CPU(s) orderable: 32 KB I + 32 KB D on chip per core
 Primary Cache: 6 MB I+D on chip per chip
 Secondary Cache:

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Software

Operating System: Windows XP Professional w/ SP2 (64-bit)
 Compiler: Intel C++ Compiler Professional 11.0 for IA32
 Build 20080930 Package ID: w_cproc_p_11.0.054
 Intel Visual Fortran Compiler Professional 11.0 for IA32
 Build 20080930 Package ID: w_cprof_p_11.0.054
 Microsoft Visual Studio 2008 (for libraries)
 Auto Parallel: No
 File System: NTFS

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L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB Micron DDR3-1066 CL7)
Disk Subsystem: Hitachi HTS722020K9SA00 200GB SATA, 7200RPM
Other Hardware: None

System State: Default
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	968	28.0	963	28.2	964	28.2	2	969	28.0	960	28.4	961	28.2
416.gamess	2	1033	37.8	1033	38.0	1033	38.0	2	1017	38.6	1016	38.6	1016	38.6
433.milc	2	792	23.2	796	23.0	795	23.0	2	793	23.2	792	23.2	798	23.0
434.zeusmp	2	535	34.0	533	34.2	543	33.6	2	520	35.0	511	35.6	523	34.8
435.gromacs	2	386	37.0	386	37.0	386	37.0	2	377	38.0	377	37.8	376	38.0
436.cactusADM	2	638	37.4	639	37.4	639	37.4	2	638	37.4	639	37.4	639	37.4
437.leslie3d	2	902	20.8	903	20.8	903	20.8	2	887	21.2	877	21.4	887	21.2
444.namd	2	512	31.4	512	31.4	512	31.4	2	512	31.4	512	31.4	512	31.4
447.dealII	2	584	39.2	583	39.2	582	39.4	2	534	42.8	533	43.0	529	43.2
450.soplex	2	750	22.2	750	22.2	751	22.2	2	744	22.4	741	22.6	746	22.4
453.povray	2	229	46.4	229	46.4	230	46.4	2	185	57.6	185	57.6	185	57.4
454.calculix	2	437	37.8	442	37.4	441	37.4	2	438	37.6	440	37.6	442	37.4
459.GemsFDTD	2	1167	18.2	1179	18.0	1170	18.2	2	1192	17.8	1186	17.8	1192	17.8
465.tonto	2	665	29.6	660	29.8	655	30.0	2	622	31.6	627	31.4	618	31.8
470.lbm	2	1792	15.4	1792	15.4	1793	15.4	1	628	21.9	628	21.9	628	21.9
481.wrf	2	731	30.6	730	30.6	734	30.4	2	731	30.6	730	30.6	734	30.4
482.sphinx3	2	1051	37.0	1056	37.0	1060	36.8	2	1046	37.2	1043	37.4	1042	37.4

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

The system bus runs at 1066 MHz
Binaries were built on Windows Vista Ultimate (32-bit)

Base Compiler Invocation

C benchmarks:
icl -Qvc9 -Qc99

C++ benchmarks:
icl -Qvc9

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Base Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc9 -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:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

C++ benchmarks:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
/F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

Benchmarks using both Fortran and C:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

Peak Compiler Invocation

C benchmarks:

icl -Qvc9 -Qc99

C++ benchmarks:

icl -Qvc9

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc9 -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: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
 -Qipo -O3 -Qprec-div- -Oa /F1000000000

470.lbm: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch
 /F1000000000

482.sphinx3: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 /F1000000000

C++ benchmarks:

444.namd: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
 -Qipo -O3 -Qprec-div- -Oa /F1000000000 shlw32m.lib
 -link /FORCE:MULTIPLE

447.dealII: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias
 -Qscalar-rep- /F1000000000 shlw32m.lib
 -link /FORCE:MULTIPLE

450.soplex: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
 -Qipo -O3 -Qprec-div- /F1000000000 shlw32m.lib
 -link /FORCE:MULTIPLE

453.povray: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
 -Qipo -O3 -Qprec-div- -Qunroll4 -Qansi-alias /F1000000000
 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch
 /F1000000000

416.gamess: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
 -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qansi-alias
 -Qscalar-rep- /F1000000000

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Peak Optimization Flags (Continued)

434.zeusmp: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- /F1000000000

437.leslie3d: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

459.GemsFDTD: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qopt-prefetch
/F1000000000

465.tonto: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll4 -Qauto /F1000000000

Benchmarks using both Fortran and C:

435.gromacs: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

436.cactusADM: basepeak = yes

454.calculix: -QxSSE4.1 -Qipo -O3 -Qprec-div- /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-ic11.0-win32-revA.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.xml>

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