



SPEC® CFP2006 Result

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Intel Corporation

SPECfp®_rate2006 = 25.0

Alienware Area-51 M15x-R1 (Intel Core 2 Duo T9500)

SPECfp_rate_base2006 = 23.7

CPU2006 license: 13

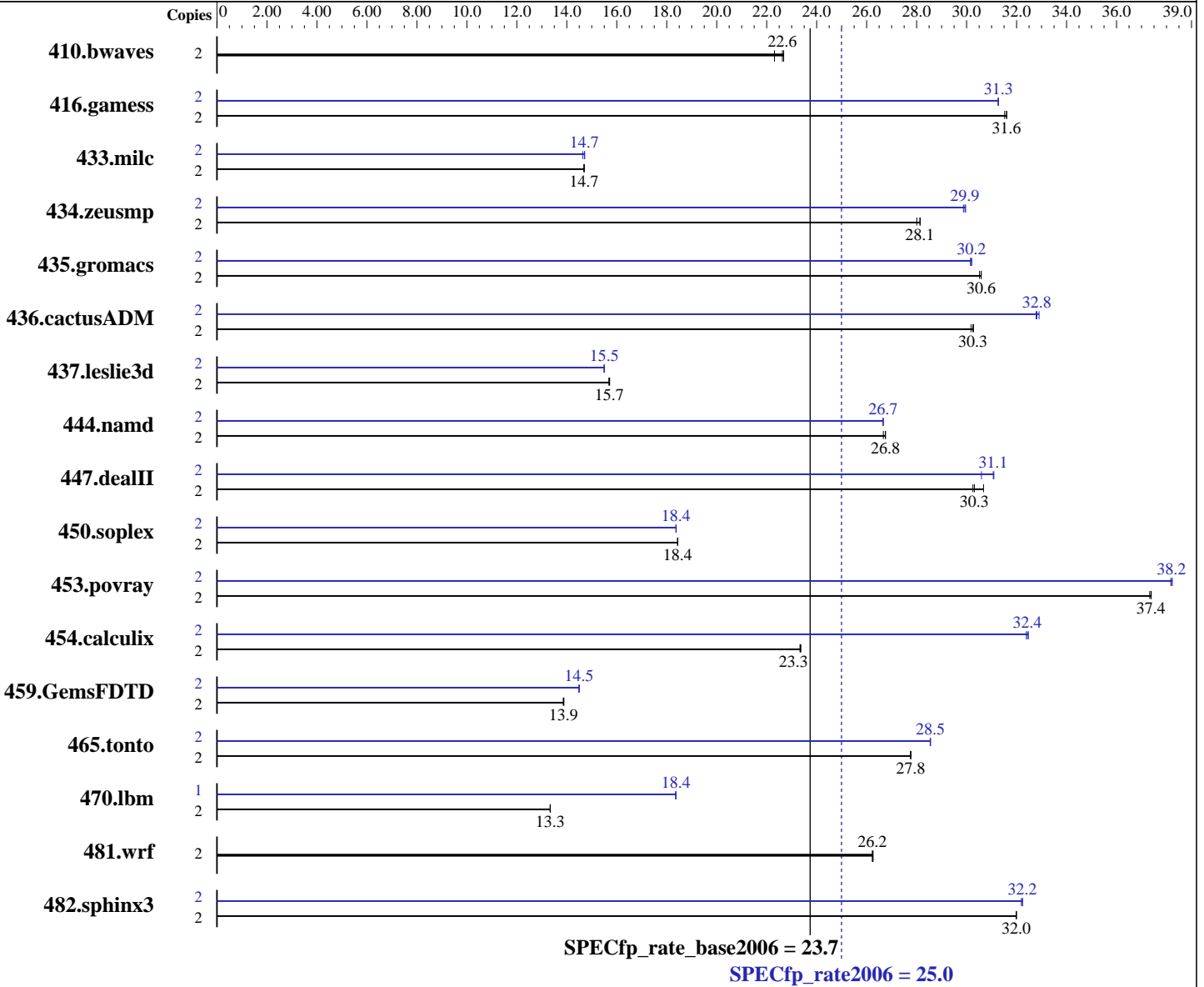
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Duo T9500
 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: 6 MB I+D on chip per chip

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Software

Operating System: Windows Vista Ultimate(32-bit)
 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 Qimonda DDR2-667 CL5)
Disk Subsystem: Fujitsu 120GB GB SATA, 7200 RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None
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	1218	22.3	1198	22.7	1201	22.6	2	1218	22.3	1198	22.7	1201	22.6
416.gamess	2	1242	31.5	1239	31.6	1239	31.6	2	1253	31.3	1252	31.3	1252	31.3
433.milc	2	1250	14.7	1249	14.7	1250	14.7	2	1254	14.6	1247	14.7	1249	14.7
434.zeusmp	2	650	28.0	647	28.1	647	28.1	2	607	30.0	608	29.9	609	29.9
435.gromacs	2	468	30.5	467	30.6	467	30.6	2	473	30.2	474	30.2	473	30.2
436.cactusADM	2	792	30.2	790	30.3	789	30.3	2	726	32.9	729	32.8	728	32.8
437.leslie3d	2	1199	15.7	1197	15.7	1196	15.7	2	1214	15.5	1212	15.5	1213	15.5
444.namd	2	601	26.7	600	26.8	600	26.8	2	602	26.7	602	26.7	602	26.7
447.dealII	2	746	30.7	755	30.3	756	30.3	2	748	30.6	736	31.1	736	31.1
450.soplex	2	905	18.4	904	18.4	905	18.4	2	908	18.4	908	18.4	907	18.4
453.povray	2	285	37.3	285	37.4	285	37.4	2	279	38.2	279	38.2	278	38.2
454.calculix	2	707	23.3	707	23.3	706	23.4	2	509	32.4	508	32.5	509	32.4
459.GemsFDTD	2	1528	13.9	1531	13.9	1529	13.9	2	1465	14.5	1464	14.5	1463	14.5
465.tonto	2	709	27.8	709	27.8	709	27.8	2	689	28.5	689	28.6	689	28.5
470.lbm	2	2060	13.3	2061	13.3	2060	13.3	1	748	18.4	748	18.4	749	18.4
481.wrf	2	852	26.2	852	26.2	851	26.3	2	852	26.2	852	26.2	851	26.3
482.sphinx3	2	1218	32.0	1219	32.0	1219	32.0	2	1211	32.2	1209	32.2	1209	32.2

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

General Notes

The system bus runs at 800 MHz
Binaries were built on Windows Vista32
The following VS 2005 SP1 updates were applied: KB926601 and KB932232
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to physical,0
The start command with the /affinity switch was used to bind processes to cores

Base Compiler Invocation

C benchmarks:
icl -Qvc8 -Qc99

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Base Compiler Invocation (Continued)

C++ benchmarks:

icl -Qvc8

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 /F1000000000

C++ benchmarks:

-fast -Qcxx_features /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

-fast /F1000000000

Benchmarks using both Fortran and C:

-fast /F1000000000

Peak Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

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Peak Compiler Invocation (Continued)

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
470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000
482.sphinx3: -fast -Qunroll2 /F1000000000

C++ benchmarks:

444.namd: -fast -Oa -Qcxx_features /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE
447.dealII: -fast -Qunroll2 -Qprefetch -Qcxx_features /F1000000000
shlw32m.lib -link /FORCE:MULTIPLE
450.soplex: -fast -Qcxx_features /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE
453.povray: -fast -Qunroll4 -Qansi-alias -Qcxx_features /F1000000000
shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: basepeak = yes
416.gamess: -fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep-
/F1000000000
434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll10 -Qscalar-rep- /F1000000000

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Peak Optimization Flags (Continued)

437.leslie3d: -fast -Qprefetch /F1000000000

459.GemsFDTD: -fast -Qunroll2 -Ob0 -Qprefetch /F1000000000

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

Benchmarks using both Fortran and C:

435.gromacs: -fast -Oa -Qprefetch /F1000000000

436.cactusADM: -fast -Qunroll2 -Qprefetch /F1000000000

454.calculix: -fast -Qunroll-aggressive /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-ic10-ia32-intel64-linux-flags.20090714.09.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.09.xml>

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 16:03:46 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 23 January 2008.