



SPEC[®] CINT2006 Result

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Intel Corporation

SPECint[®]_rate2006 = 11.4

Lenovo ThinkPad T43 (Intel Pentium M 780)

SPECint_rate_base2006 = 10.7

CPU2006 license: 13

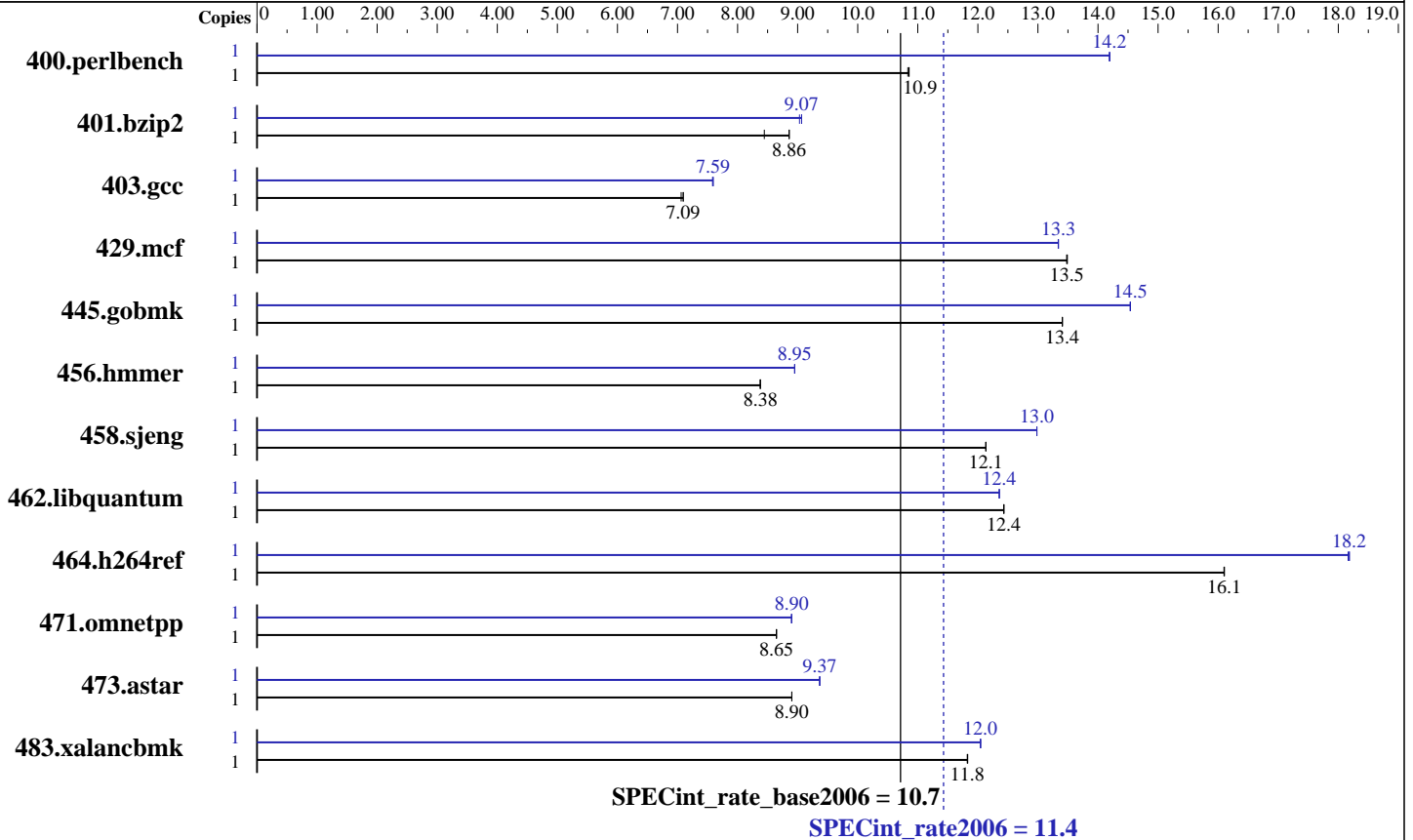
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Pentium M 780
 CPU Characteristics:
 CPU MHz: 2266
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per chip
 Secondary Cache: 2 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 2 GB (2x1GB Hynix DDR2-667 CL5)
 Disk Subsystem: Hitachi 100 GB SATA, 7200 RPM
 Other Hardware: None

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
 Microsoft Visual Studio 2005 SP1 (for libraries)
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None
 SmartHeap Library Version 8.1 from
<http://www.microquill.com/>



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Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	1	902	10.8	900	10.9	900	10.9	1	688	14.2	689	14.2	689	14.2
401.bzip2	1	1143	8.44	1089	8.86	1090	8.86	1	1064	9.07	1064	9.07	1069	9.03
403.gcc	1	1140	7.06	1135	7.09	1134	7.10	1	1060	7.59	1060	7.59	1062	7.58
429.mcf	1	676	13.5	676	13.5	677	13.5	1	684	13.3	684	13.3	684	13.3
445.gobmk	1	782	13.4	783	13.4	783	13.4	1	722	14.5	722	14.5	722	14.5
456.hammer	1	1113	8.38	1114	8.38	1113	8.38	1	1043	8.95	1042	8.95	1042	8.95
458.sjeng	1	997	12.1	997	12.1	997	12.1	1	932	13.0	932	13.0	932	13.0
462.libquantum	1	1667	12.4	1667	12.4	1666	12.4	1	1677	12.4	1677	12.4	1677	12.4
464.h264ref	1	1374	16.1	1374	16.1	1375	16.1	1	1217	18.2	1217	18.2	1218	18.2
471.omnetpp	1	723	8.65	723	8.65	723	8.65	1	702	8.90	702	8.90	702	8.90
473.astar	1	789	8.90	788	8.90	788	8.90	1	749	9.37	749	9.37	749	9.37
483.xalanbmk	1	583	11.8	584	11.8	583	11.8	1	573	12.0	573	12.0	573	12.0

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

General Notes

The system bus runs at 533 MHz
 Binaries were built on Windows Vista (32-bit)
 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

Base Compiler Invocation

C benchmarks:
 icl -Qvc8 -Qc99

C++ benchmarks:
 icl -Qvc8

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
 464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
 483.xalanbmk: -Qoption,cpp,--no_wchar_t_keyword



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Base Optimization Flags

C benchmarks:

-QxB -Qipo -O3 -Qprec-div- -Qvec-guard-write /F512000000

C++ benchmarks:

-QxB -Qipo -O3 -Qprec-div- -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- -Qansi-alias -Qprefetch /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- -Qprefetch /F512000000

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- /F512000000

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Peak Optimization Flags (Continued)

429.mcf: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- -Qprefetch /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -O2 -Qipo
-Qprec-div- -Qansi-alias /F512000000

456.hmmr: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- -Qunroll2 -Qansi-alias
-Qopt-multi-version-aggressive /F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- -Qunroll4 /F512000000

462.libquantum: -QxB -Qipo -O3 -Qprec-div- -Qunroll4 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- -Qansi-alias -Qopt-ra-region-strategy=block
-Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- -Qansi-alias -Qopt-ra-region-strategy=routine
-Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxB -Qipo -O3
-Qprec-div- -Qansi-alias -Qcxx_features /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

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>



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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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