



SPEC® CINT2006 Result

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Intel Corporation Lenovo Thinkpad T400

SPECint®2006 = 21.5
SPECint_base2006 = 19.4

CPU2006 license: 13

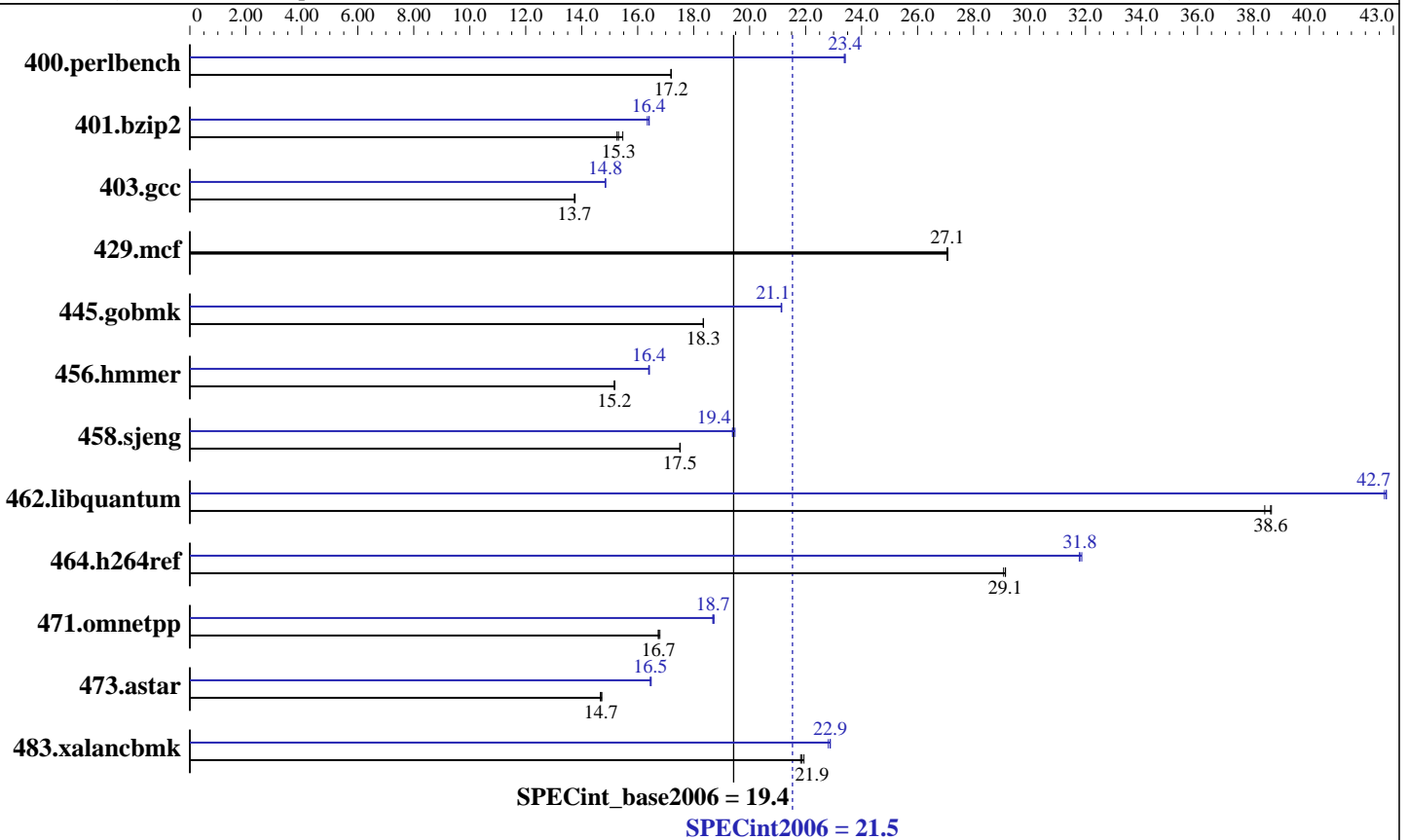
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Aug-2008

Hardware Availability: Sep-2008

Software Availability: Nov-2007



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
 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

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
 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: SmartHeap Library Version 8.1 from <http://www.microquill.com/>



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	568	17.2	568	17.2	568	17.2	418	23.4	417	23.4	417	23.4
401.bzip2	624	15.5	630	15.3	632	15.3	590	16.3	588	16.4	588	16.4
403.gcc	585	13.8	586	13.7	586	13.7	542	14.8	542	14.8	542	14.9
429.mcf	337	27.1	337	27.1	337	27.1	337	27.1	337	27.1	337	27.1
445.gobmk	572	18.4	572	18.3	572	18.3	496	21.1	497	21.1	496	21.1
456.hammer	615	15.2	615	15.2	615	15.2	569	16.4	569	16.4	568	16.4
458.sjeng	691	17.5	691	17.5	691	17.5	621	19.5	624	19.4	624	19.4
462.libquantum	537	38.6	540	38.4	536	38.6	485	42.7	485	42.7	485	42.8
464.h264ref	761	29.1	759	29.1	760	29.1	696	31.8	696	31.8	694	31.9
471.omnetpp	372	16.8	373	16.7	373	16.7	334	18.7	334	18.7	334	18.7
473.astar	477	14.7	479	14.7	478	14.7	426	16.5	427	16.5	427	16.5
483.xalancbmk	314	21.9	316	21.8	315	21.9	303	22.8	302	22.9	302	22.9

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

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-fast -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000
libguide40.lib

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Base Optimization Flags (Continued)

C++ benchmarks:
 -fast -Qcxx_features /F512000000 shlw32m.lib libguide40.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) -fast -Qansi-alias
 -Qprefetch -Qparallel -Qpar-runtime-control /F512000000
 shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
 /F512000000 libguide40.lib

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
 libguide40.lib

429.mcf: basepeak = yes

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

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Peak Optimization Flags (Continued)

456.hmmcr: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias -Qopt-multi-version-aggressive /F512000000
libguide40.lib

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
/F512000000 libguide40.lib

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000 libguide40.lib

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias /F512000000 libguide40.lib

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qopt-ra-region-strategy=block -Qcxx_features /F512000000
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qopt-ra-region-strategy=routine -Qcxx_features /F512000000
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.lib libguide40.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-ic10.1-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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