SPEC® CINT2006 Result

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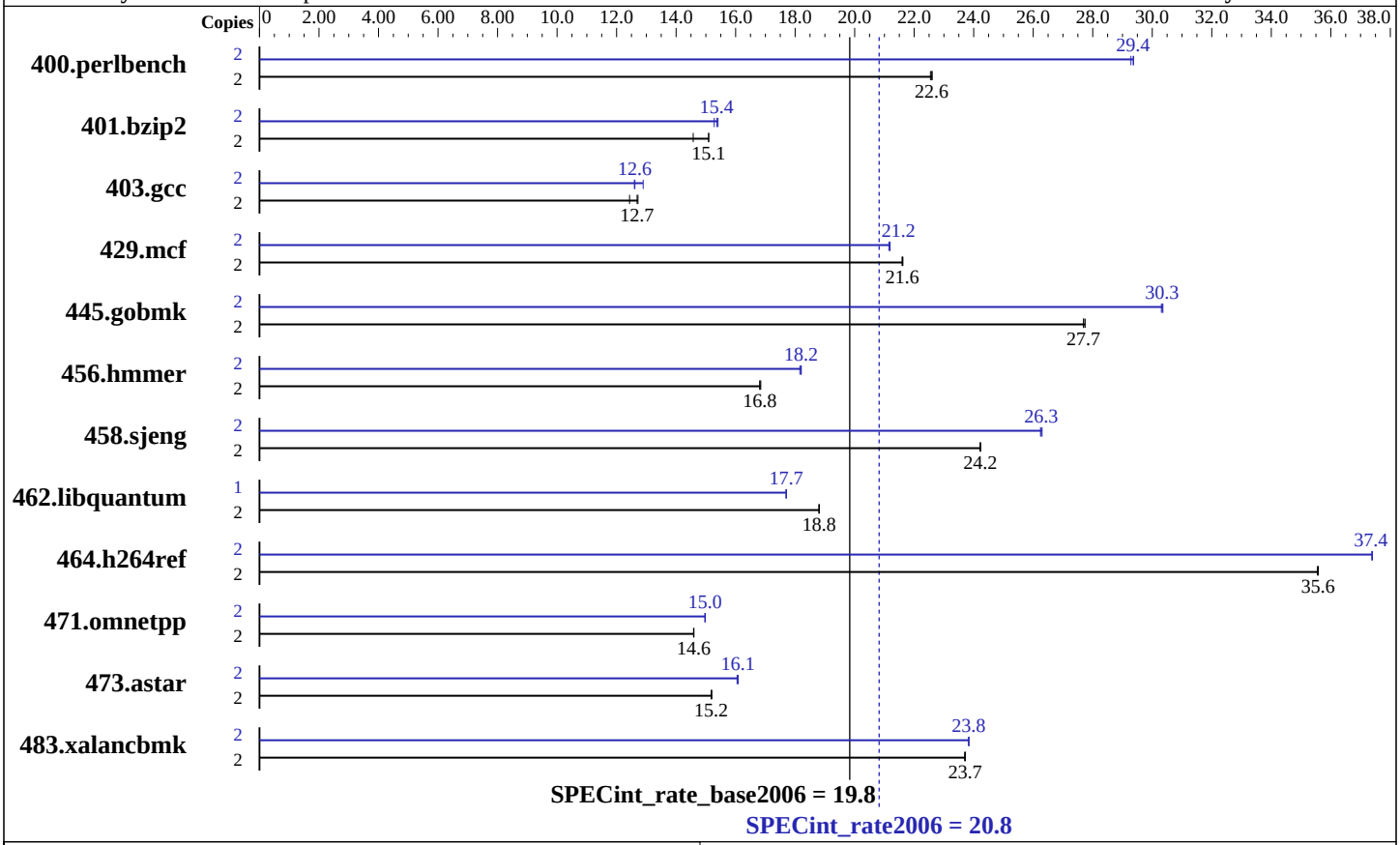
Intel Corporation
Lenovo Thinkpad T60

SPECint®_rate2006 = 20.8

SPECint_rate_base2006 = 19.8

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Aug-2008
Hardware Availability: Sep-2006
Software Availability: Nov-2007



Hardware

CPU Name:	Intel Core Duo T2700
CPU Characteristics:	
CPU MHz:	2333
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:	2 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	2 GB (2x1GB Micron PC2-5300 DDR2-667 CL5)
Disk Subsystem:	Hitachi Travelstar HTS721010G9SA00 SATA 100GB 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:	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	2	867	22.5	864	22.6	**865**	**22.6**	2	**666**	**29.4**	665	29.4	667	29.3
401.bzip2	2	1324	14.6	**1279**	**15.1**	1278	15.1	2	**1256**	**15.4**	1263	15.3	1253	15.4
403.gcc	2	**1269**	**12.7**	1266	12.7	1295	12.4	2	1278	12.6	**1276**	**12.6**	1249	12.9
429.mcf	2	**844**	**21.6**	845	21.6	844	21.6	2	**861**	**21.2**	862	21.1	861	21.2
445.gobmk	2	**758**	**27.7**	758	27.7	756	27.7	2	691	30.4	**692**	**30.3**	692	30.3
456.hmmer	2	1110	16.8	**1109**	**16.8**	1108	16.8	2	**1025**	**18.2**	1025	18.2	1028	18.2
458.sjeng	2	999	24.2	**999**	**24.2**	999	24.2	2	920	26.3	**921**	**26.3**	922	26.2
462.libquantum	2	2205	18.8	2202	18.8	**2204**	**18.8**	1	1171	17.7	1170	17.7	**1171**	**17.7**
464.h264ref	2	1244	35.6	**1244**	**35.6**	1245	35.5	2	**1184**	**37.4**	1184	37.4	1183	37.4
471.omnetpp	2	**857**	**14.6**	856	14.6	857	14.6	2	835	15.0	835	15.0	**835**	**15.0**
473.astar	2	**925**	**15.2**	924	15.2	925	15.2	2	873	16.1	875	16.0	**873**	**16.1**
483.xalancbmk	2	582	23.7	582	23.7	**582**	**23.7**	2	**579**	**23.8**	579	23.8	579	23.8

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:
```
-QxP -Qipo -O3 -Qprec-div- -Qvec-guard-write /F512000000
```

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Base Optimization Flags (Continued)

C++ benchmarks:
-QxP -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) -QxP -Qipo -O3 -Qprec-div- -Qansi-alias -Qprefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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

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

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

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Peak Optimization Flags (Continued)

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

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

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

462.libquantum: -QxP -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) -QxP -Qipo -O3
-Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxP -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) -QxP -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) -QxP -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-ic10.1-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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