SPEC® CINT2006 Result

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Intel Corporation

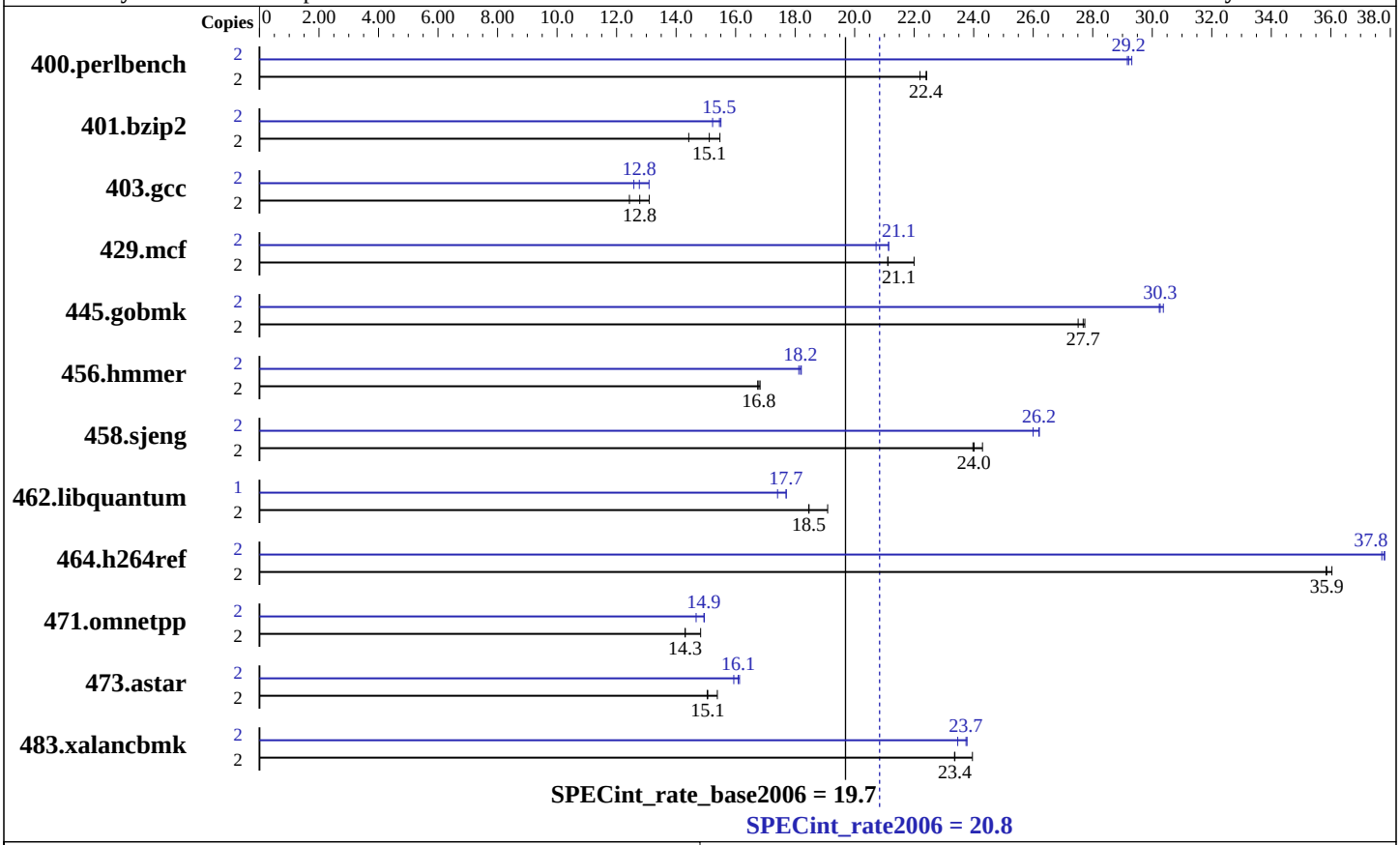
Lenovo ThinkPad T60 (Intel Core Duo T2700)

SPECint®_rate2006 = 20.8

SPECint_rate_base2006 = 19.7

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 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 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	2	**872**	**22.4**	872	22.4	880	22.2	2	**669**	**29.2**	667	29.3	670	29.2
401.bzip2	2	1338	14.4	1247	15.5	**1277**	**15.1**	2	1268	15.2	1245	15.5	**1249**	**15.5**
403.gcc	2	**1260**	**12.8**	1229	13.1	1295	12.4	2	1280	12.6	**1261**	**12.8**	1230	13.1
429.mcf	2	**863**	**21.1**	829	22.0	864	21.1	2	880	20.7	863	21.1	**863**	**21.1**
445.gobmk	2	763	27.5	756	27.7	**758**	**27.7**	2	**693**	**30.3**	691	30.4	694	30.2
456.hmmer	2	1115	16.7	**1112**	**16.8**	1109	16.8	2	**1026**	**18.2**	1025	18.2	1030	18.1
458.sjeng	2	1009	24.0	996	24.3	**1008**	**24.0**	2	931	26.0	923	26.2	**924**	**26.2**
462.libquantum	2	2246	18.5	2170	19.1	**2244**	**18.5**	1	1190	17.4	**1171**	**17.7**	1171	17.7
464.h264ref	2	1235	35.8	1228	36.0	**1234**	**35.9**	2	1174	37.7	1171	37.8	**1171**	**37.8**
471.omnetpp	2	874	14.3	843	14.8	**874**	**14.3**	2	852	14.7	836	14.9	**837**	**14.9**
473.astar	2	**932**	**15.1**	913	15.4	933	15.0	2	881	15.9	**873**	**16.1**	870	16.1
483.xalancbmk	2	591	23.4	576	24.0	**591**	**23.4**	2	588	23.5	580	23.8	**581**	**23.7**

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

General Notes

```
The system bus runs at 667 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.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

Base Optimization Flags

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

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`

Continued on next page

Peak Optimization Flags (Continued)

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

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-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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