SPEC® CINT2006 Result

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Intel Corporation

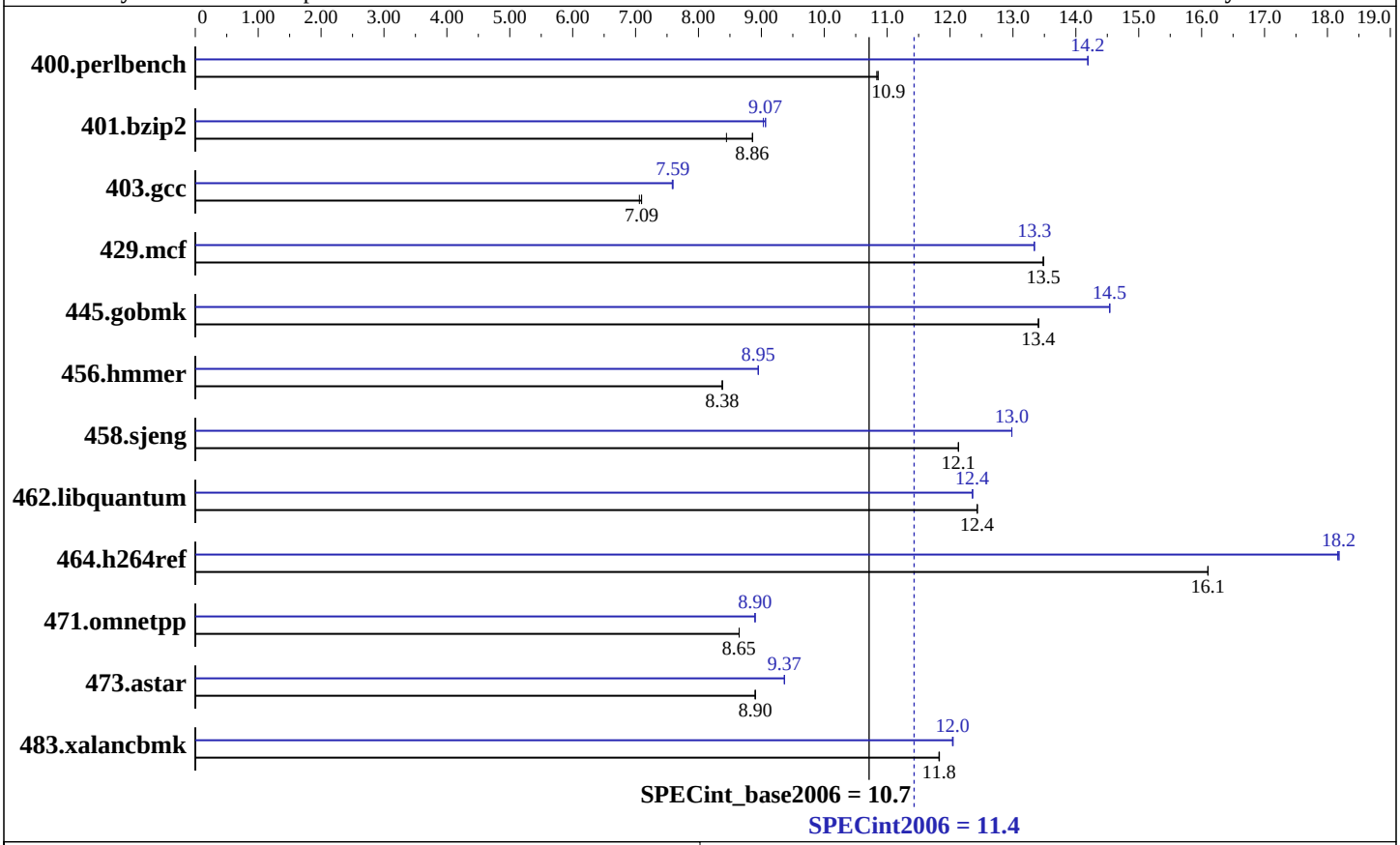
Lenovo ThinkPad T43 (Intel Pentium M 780)

SPECint®2006 = 11.4

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

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`

Continued on next page

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.hmmer: -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

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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