



SPEC® CINT2006 Result

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Intel Corporation

SPECint®2006 = 13.1

Lenovo ThinkPad T60 (Intel Core Duo T2700)

SPECint_base2006 = 12.0

CPU2006 license: 13

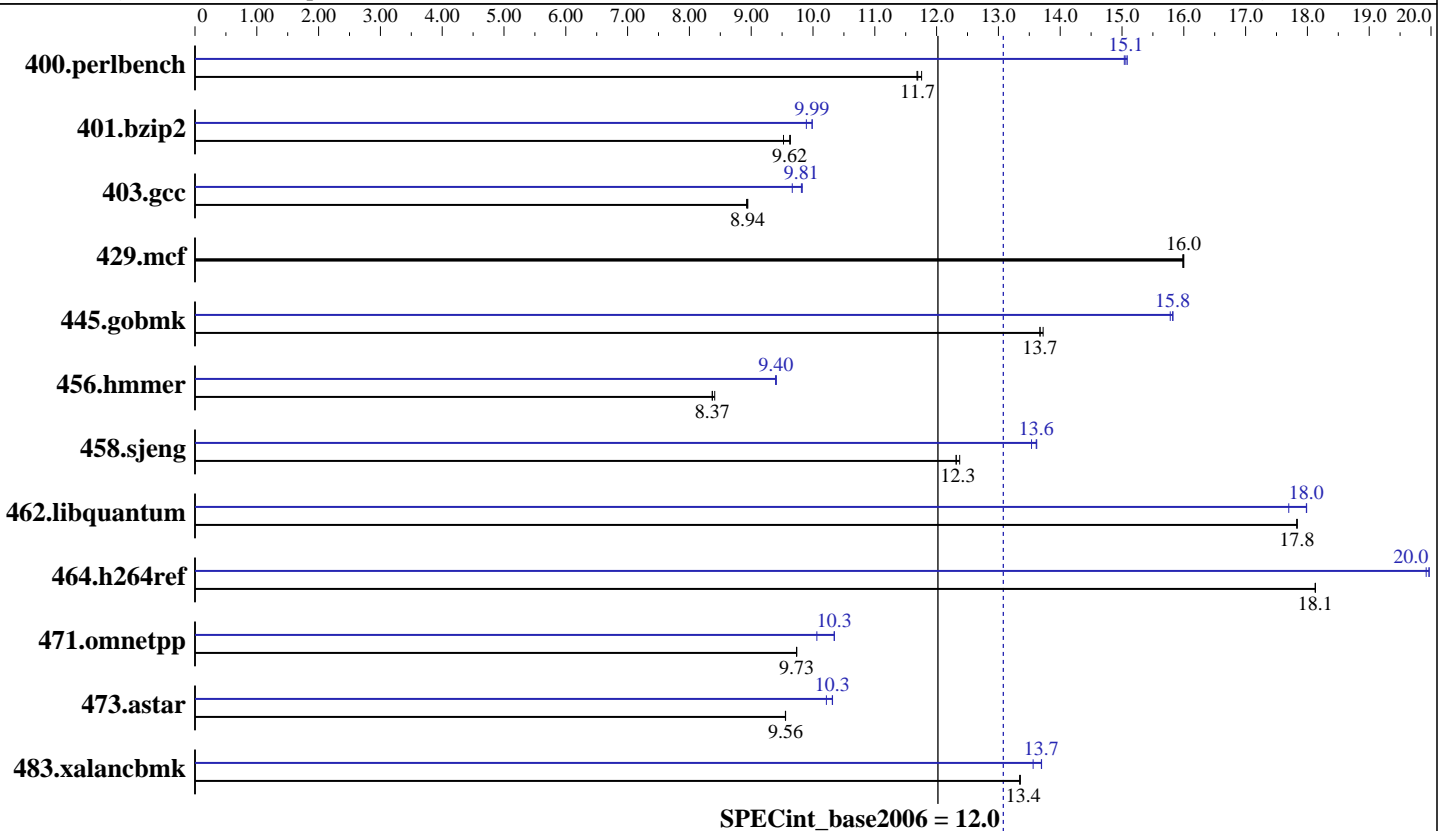
Test sponsor: Intel Corporation

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	836	11.7	835	11.7	831	11.8	650	15.0	648	15.1	649	15.1
401.bzip2	1013	9.52	1003	9.62	1002	9.63	975	9.89	966	9.99	966	9.99
403.gcc	902	8.92	900	8.94	900	8.94	833	9.66	820	9.81	819	9.83
429.mcf	570	16.0	570	16.0	571	16.0	570	16.0	570	16.0	571	16.0
445.gobmk	764	13.7	767	13.7	767	13.7	665	15.8	663	15.8	663	15.8
456.hammer	1109	8.41	1115	8.37	1115	8.37	993	9.40	992	9.41	992	9.40
458.sjeng	978	12.4	982	12.3	982	12.3	894	13.5	888	13.6	889	13.6
462.libquantum	1162	17.8	1162	17.8	1162	17.8	1171	17.7	1152	18.0	1152	18.0
464.h264ref	1221	18.1	1221	18.1	1221	18.1	1111	19.9	1108	20.0	1108	20.0
471.omnetpp	642	9.73	642	9.73	642	9.74	621	10.1	604	10.3	604	10.3
473.astar	735	9.55	735	9.56	735	9.56	687	10.2	680	10.3	681	10.3
483.xalanbmk	517	13.4	517	13.3	517	13.4	509	13.6	504	13.7	504	13.7

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

Compiler Invocation

C benchmarks:
 icl -Qvc8 -Qc99

C++ benchmarks:
 icl -Qvc8

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:

-QxP -Qipo -O3 -Qprec-div- -Qparallel -Qpar-runtime-control
-Qvec-guard-write /F512000000 libguide40.lib

C++ benchmarks:

-QxP -Qipo -O3 -Qprec-div- -Qcxx_features /F512000000 shlw32m.lib
libguide40.lib -link /FORCE:MULTIPLE

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxP -Qipo -O3
-Qprec-div- -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) -QxP -Qipo -O3
-Qprec-div- -Qprefetch /F512000000 libguide40.lib

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxP -Qipo -O3
-Qprec-div- /F512000000 libguide40.lib

429.mcf: basepeak = yes

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 libguide40.lib

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxP -Qipo -O3
-Qprec-div- -Qunroll4 /F512000000 libguide40.lib

462.libquantum: -QxP -Qipo -O3 -Qprec-div- -Qunroll4 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000 libguide40.lib

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxP -Qipo -O3
-Qprec-div- -Qunroll2 -Qansi-alias /F512000000
libguide40.lib

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 libguide40.lib
-link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

```
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 libguide40.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 libguide40.lib -link /FORCE:MULTIPLE
```

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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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 14 10:43:26 2009 by SPEC CPU2006 PS/PDF formatter v6323.