



SPEC® CINT2006 Result

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Intel Corporation

SPECint®2006 = 11.4

Lenovo ThinkPad T43 (Intel Pentium M 780)

SPECint_base2006 = 10.7

CPU2006 license: 13

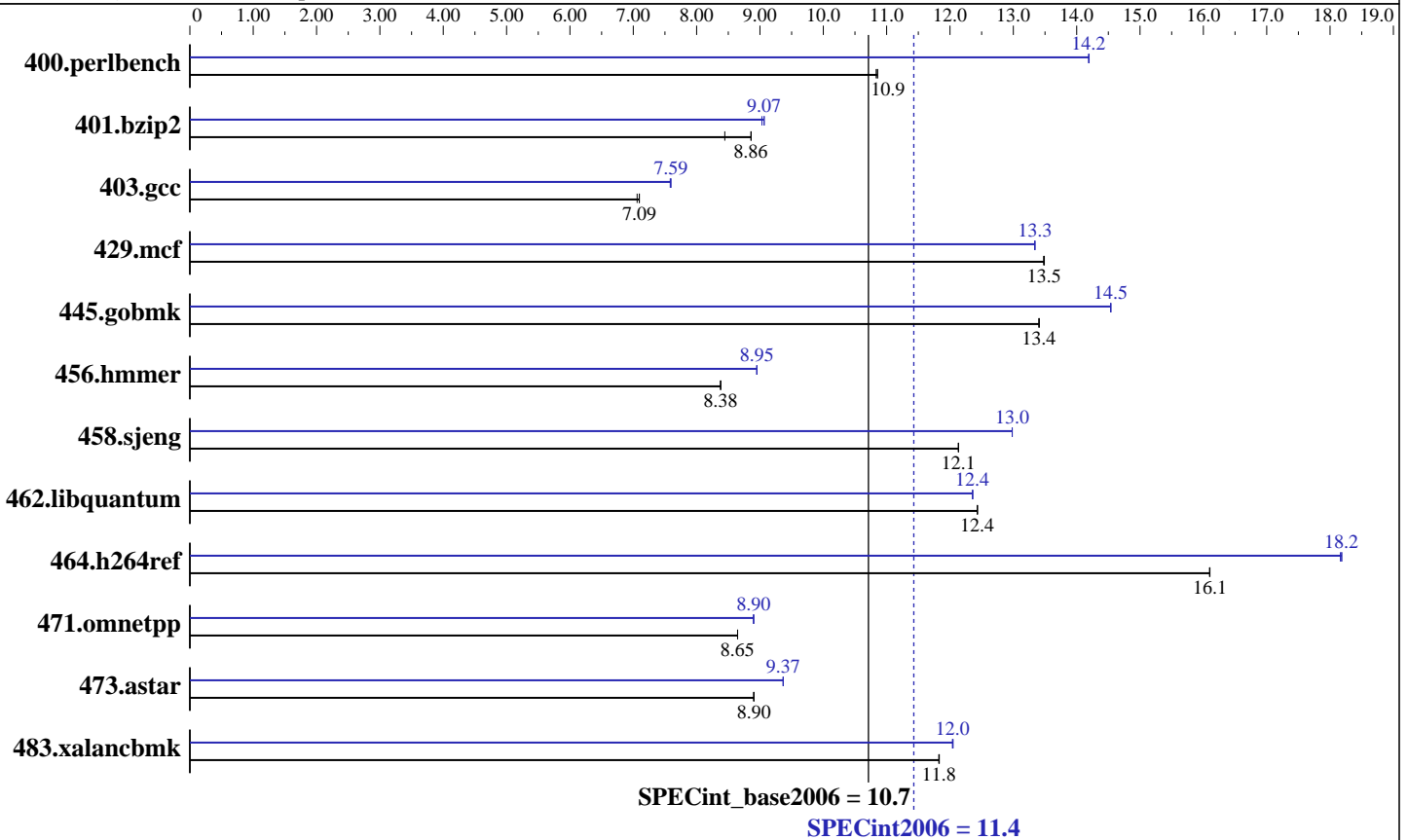
Test sponsor: Intel Corporation

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 | <u>900</u> | <u>10.9</u> | 688 | 14.2 | 689 | 14.2 | <u>689</u> | <u>14.2</u> |
| 401.bzip2 | 1143 | 8.44 | 1089 | 8.86 | <u>1090</u> | <u>8.86</u> | 1064 | 9.07 | <u>1064</u> | <u>9.07</u> | 1069 | 9.03 |
| 403.gcc | 1140 | 7.06 | <u>1135</u> | <u>7.09</u> | 1134 | 7.10 | <u>1060</u> | <u>7.59</u> | 1060 | 7.59 | 1062 | 7.58 |
| 429.mcf | 676 | 13.5 | <u>676</u> | <u>13.5</u> | 677 | 13.5 | 684 | 13.3 | 684 | 13.3 | <u>684</u> | <u>13.3</u> |
| 445.gobmk | 782 | 13.4 | 783 | 13.4 | <u>783</u> | <u>13.4</u> | 722 | 14.5 | 722 | 14.5 | <u>722</u> | <u>14.5</u> |
| 456.hmmmer | 1113 | 8.38 | 1114 | 8.38 | <u>1113</u> | <u>8.38</u> | 1043 | 8.95 | <u>1042</u> | <u>8.95</u> | 1042 | 8.95 |
| 458.sjeng | 997 | 12.1 | <u>997</u> | <u>12.1</u> | 997 | 12.1 | 932 | 13.0 | 932 | 13.0 | <u>932</u> | <u>13.0</u> |
| 462.libquantum | 1667 | 12.4 | <u>1667</u> | <u>12.4</u> | 1666 | 12.4 | 1677 | 12.4 | <u>1677</u> | <u>12.4</u> | 1677 | 12.4 |
| 464.h264ref | <u>1374</u> | <u>16.1</u> | 1374 | 16.1 | 1375 | 16.1 | <u>1217</u> | <u>18.2</u> | 1217 | 18.2 | 1218 | 18.2 |
| 471.omnetpp | <u>723</u> | <u>8.65</u> | 723 | 8.65 | 723 | 8.65 | <u>702</u> | <u>8.90</u> | 702 | 8.90 | 702 | 8.90 |
| 473.astar | 789 | 8.90 | 788 | 8.90 | <u>788</u> | <u>8.90</u> | 749 | 9.37 | <u>749</u> | <u>9.37</u> | 749 | 9.37 |
| 483.xalanbmk | <u>583</u> | <u>11.8</u> | 584 | 11.8 | 583 | 11.8 | 573 | 12.0 | <u>573</u> | <u>12.0</u> | 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.xalanbmk: -Qoption,cpp,--no_wchar_t_keyword



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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

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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.hmmr: -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>



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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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