



# SPEC® CINT2006 Result

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## ASUSTeK Computer Inc.

**SPECint®2006 = 28.6**

### Asus P6T Deluxe (Intel Core i7-920)

**SPECint\_base2006 = 25.7**

CPU2006 license: 13

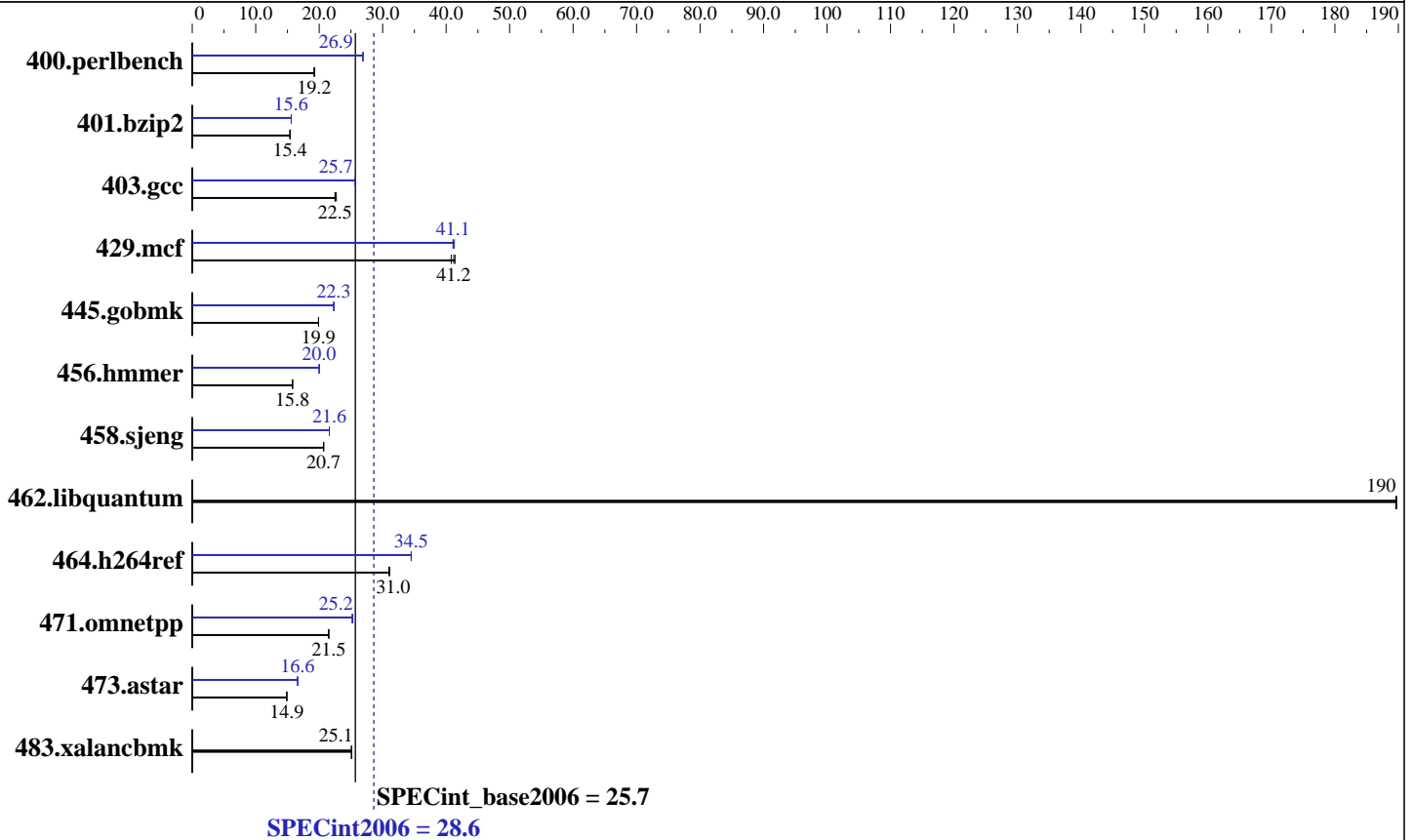
Test date: Oct-2008

Test sponsor: Intel Corporation

Hardware Availability: Nov-2008

Tested by: Intel Corporation

Software Availability: Nov-2008



### Hardware

CPU Name: Intel Core i7-920  
 CPU Characteristics: Intel Turbo Boost Technology up to 2.93 GHz  
 CPU MHz: 2667  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 256 KB I+D on chip per core  
 L3 Cache: 8 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 12 GB (6 x 2GB Samsung M378B5673DZ1-CF8 DDR3-1066 CL7)  
 Disk Subsystem: 80 GB Intel X-25M SATA Solid-State Drive  
 Other Hardware: None

### Software

Operating System: Windows Vista Ultimate w/ SP1 (64-bit)  
 Compiler: Intel C++ Compiler Professional 11.0 for IA32  
 Build 20080930 Package ID: w\_cproc\_p\_11.0.054  
 Microsoft Visual Studio 2008 (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  | 507        | 19.3        | 508        | 19.2        | <b>508</b> | <b>19.2</b> | <b>363</b> | <b>26.9</b> | 363        | 26.9        | 363        | 26.9        |
| 401.bzip2      | 629        | 15.4        | <b>629</b> | <b>15.4</b> | 629        | 15.4        | 618        | 15.6        | <b>618</b> | <b>15.6</b> | 618        | 15.6        |
| 403.gcc        | 358        | 22.5        | <b>358</b> | <b>22.5</b> | 354        | 22.7        | 314        | 25.7        | <b>314</b> | <b>25.7</b> | 314        | 25.7        |
| 429.mcf        | 221        | 41.4        | 223        | 40.8        | <b>221</b> | <b>41.2</b> | 221        | 41.3        | <b>222</b> | <b>41.1</b> | 222        | 41.1        |
| 445.gobmk      | 527        | 19.9        | <b>527</b> | <b>19.9</b> | 528        | 19.9        | 471        | 22.3        | 471        | 22.3        | <b>471</b> | <b>22.3</b> |
| 456.hammer     | 590        | 15.8        | <b>590</b> | <b>15.8</b> | 590        | 15.8        | <b>467</b> | <b>20.0</b> | 468        | 20.0        | 467        | 20.0        |
| 458.sjeng      | 586        | 20.7        | <b>586</b> | <b>20.7</b> | 586        | 20.7        | <b>560</b> | <b>21.6</b> | 560        | 21.6        | 559        | 21.6        |
| 462.libquantum | 109        | 190         | <b>109</b> | <b>190</b>  | 109        | 190         | 109        | 190         | <b>109</b> | <b>190</b>  | 109        | 190         |
| 464.h264ref    | <b>713</b> | <b>31.0</b> | 713        | 31.0        | 713        | 31.1        | <b>641</b> | <b>34.5</b> | 641        | 34.5        | 641        | 34.5        |
| 471.omnetpp    | 290        | 21.5        | 291        | 21.5        | <b>290</b> | <b>21.5</b> | 248        | 25.3        | 248        | 25.2        | <b>248</b> | <b>25.2</b> |
| 473.astar      | 471        | 14.9        | <b>470</b> | <b>14.9</b> | 470        | 14.9        | 423        | 16.6        | <b>423</b> | <b>16.6</b> | 424        | 16.6        |
| 483.xalancbmk  | 275        | 25.1        | <b>275</b> | <b>25.1</b> | 275        | 25.1        | 275        | 25.1        | <b>275</b> | <b>25.1</b> | 275        | 25.1        |

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

## General Notes

Tested systems can be used with Shin-G ATX case,  
 PC Power and Cooling 1200W power supply  
 System was configured with nVidia GTX 280 discrete graphics card  
 Binaries were built on Windows Vista Ultimate (32-bit)  
 OMP\_NUM\_THREADS set to number of logical processors as seen by the OS  
 KMP\_AFFINITY set to physical,0

## Compiler Invocation

C benchmarks:  
 icl -Qvc9 -Qc99

C++ benchmarks:  
 icl -Qvc9

## Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
 464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32  
 483.xalancbmk: -Qoption,cpp,--no\_wchar\_t\_keyword



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## Base Optimization Flags

C benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel  
-Qpar-runtime-control -Qvec-guard-write /F512000000

C++ benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

## Peak Optimization Flags

C benchmarks:

400.perlbench: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias  
/F512000000

403.gcc: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- /F512000000

429.mcf: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch  
/F512000000

445.gobmk: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
/F512000000

458.sjeng: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll14 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qansi-alias  
-Qopt-ra-region-strategy=block /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

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## Peak Optimization Flags (Continued)

```
473.astar: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
          -Qipo -O3 -Qprec-div- -Qansi-alias
          -Qopt-ra-region-strategy=routine /F512000000 shlw32m.lib
          -link /FORCE:MULTIPLE
```

483.xalancbmk: basepeak = yes

## Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.html>

<http://www.spec.org/cpu2006/flags/Intel-Win32-Platform.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.xml>

<http://www.spec.org/cpu2006/flags/Intel-Win32-Platform.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.1.

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