# SPEC® CINT2006 Result



## ASUSTeK Computer Inc.

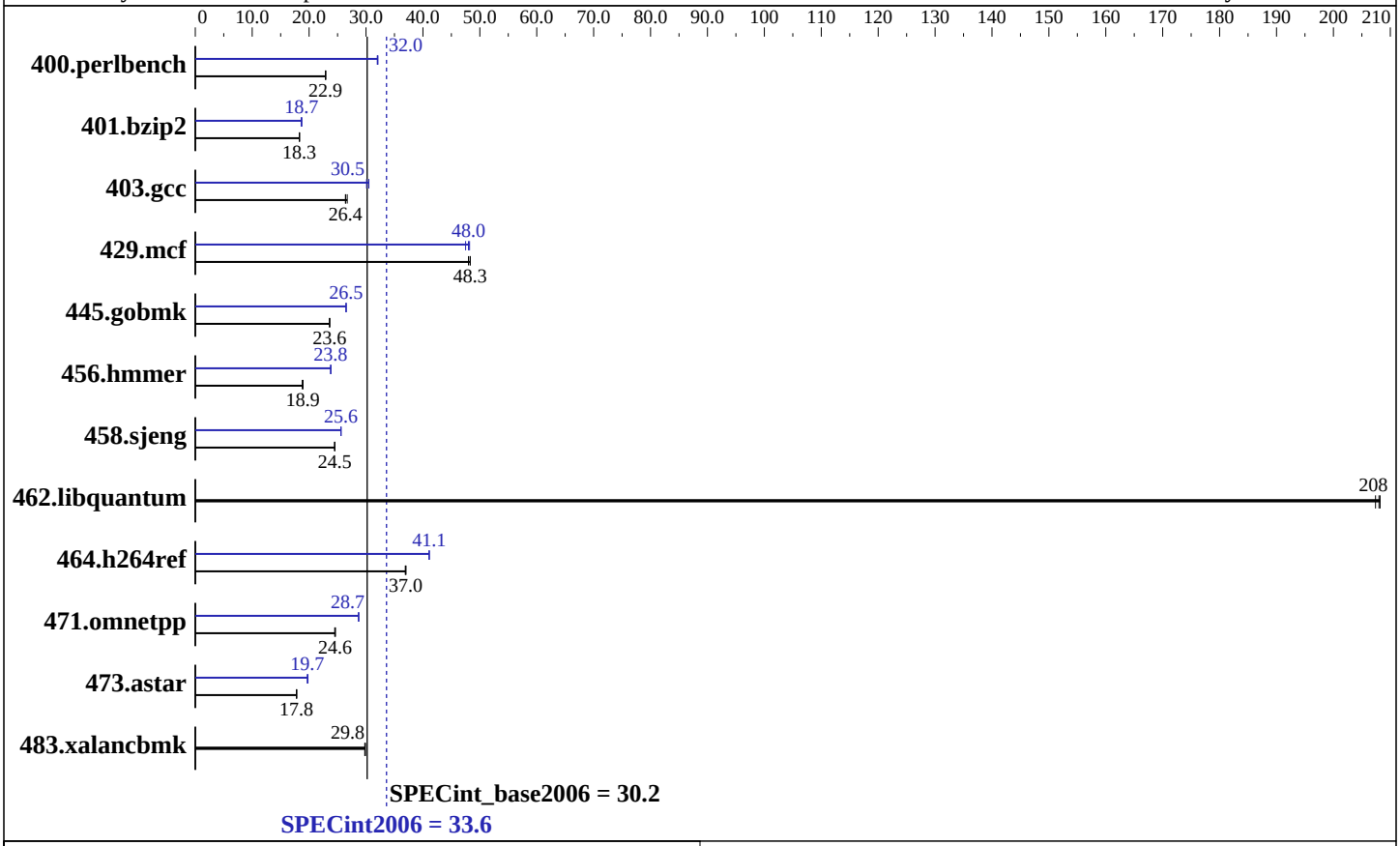
Asus P6T Deluxe (Intel Core i7-965 Extreme Edition)

SPECint®2006 = 33.6

SPECint_base2006 = 30.2

**CPU2006 license:** 13
**Test sponsor:** Intel Corporation
**Tested by:** Intel Corporation

**Test date:** Oct-2008
**Hardware Availability:** Nov-2008
**Software Availability:** Nov-2008




## Hardware

| | |
|---|---|
| CPU Name: | Intel Core i7-965 Extreme Edition |
| CPU Characteristics: | Intel Turbo Boost Technology up to 3.46 GHz |
| CPU MHz: | 3200 |
| 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 | 426 | 22.9 | 426 | 22.9 | **426** | **22.9** | 305 | 32.0 | 305 | 32.1 | **305** | **32.0** |
| 401.bzip2 | 526 | 18.3 | **526** | **18.3** | 526 | 18.3 | 517 | 18.7 | 518 | 18.6 | **517** | **18.7** |
| 403.gcc | **305** | **26.4** | 305 | 26.4 | 302 | 26.7 | 264 | 30.5 | 267 | 30.1 | **264** | **30.5** |
| 429.mcf | 189 | 48.3 | **189** | **48.3** | 190 | 48.0 | 189 | 48.2 | 192 | 47.5 | **190** | **48.0** |
| 445.gobmk | 444 | 23.6 | 444 | 23.6 | **444** | **23.6** | **396** | **26.5** | 395 | 26.5 | 396 | 26.5 |
| 456.hmmer | 496 | 18.8 | 495 | 18.9 | **495** | **18.9** | 392 | 23.8 | **392** | **23.8** | 392 | 23.8 |
| 458.sjeng | 494 | 24.5 | 494 | 24.5 | **494** | **24.5** | 472 | 25.6 | 472 | 25.6 | **472** | **25.6** |
| 462.libquantum | 99.5 | 208 | **99.6** | **208** | 99.9 | 207 | 99.5 | 208 | **99.6** | **208** | 99.9 | 207 |
| 464.h264ref | 599 | 37.0 | 599 | 36.9 | **599** | **37.0** | 538 | 41.1 | **539** | **41.1** | 539 | 41.1 |
| 471.omnetpp | 255 | 24.5 | **254** | **24.6** | 254 | 24.6 | 218 | 28.7 | **218** | **28.7** | 217 | 28.7 |
| 473.astar | 395 | 17.8 | **395** | **17.8** | 395 | 17.8 | 355 | 19.8 | **356** | **19.7** | 356 | 19.7 |
| 483.xalancbmk | 232 | 29.8 | 231 | 29.9 | **231** | **29.8** | 232 | 29.8 | 231 | 29.9 | **231** | **29.8** |

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`

## 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- -Qunroll4 /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

Continued on next page

# 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`



For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.1.
Report generated on Tue Mar 3 13:59:17 2009 by SPEC CPU2006 PS/PDF formatter v6197.