



SPEC® CINT2006 Result

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ASUSTeK Computer Inc.

SPECint®2006 = 28.1

Asus P5E3 Premium (Intel Core 2 Quad Q9650)

SPECint_base2006 = 25.6

CPU2006 license: 13

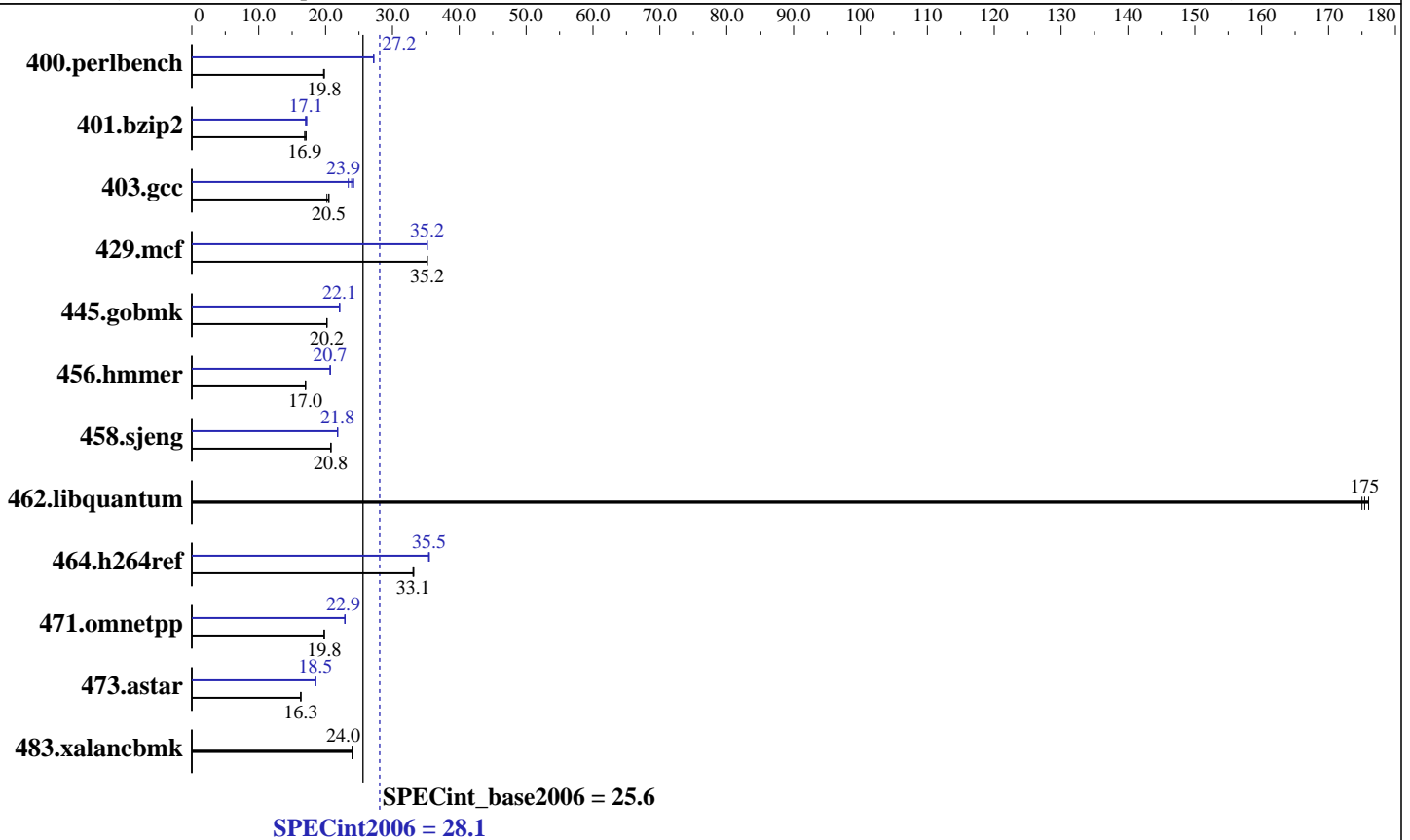
Test date: Oct-2008

Test sponsor: Intel Corporation

Hardware Availability: Apr-2008

Tested by: Intel Corporation

Software Availability: Nov-2008



Hardware

CPU Name: Intel Core 2 Quad Q9650
 CPU Characteristics:
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4 x 1GB Corsair CM3X1024-1333C9DHX DDR3-1333 CL9)
 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	495	19.7	494	19.8	494	19.8	359	27.2	359	27.2	359	27.2
401.bzip2	571	16.9	571	16.9	565	17.1	562	17.2	568	17.0	565	17.1
403.gcc	393	20.5	398	20.2	392	20.5	344	23.4	333	24.2	337	23.9
429.mcf	259	35.2	259	35.2	259	35.2	259	35.2	259	35.2	259	35.2
445.gobmk	518	20.2	518	20.2	518	20.2	474	22.1	475	22.1	474	22.1
456.hammer	549	17.0	549	17.0	549	17.0	450	20.7	450	20.7	450	20.7
458.sjeng	581	20.8	581	20.8	581	20.8	554	21.8	554	21.8	554	21.8
462.libquantum	118	175	118	176	118	175	118	175	118	176	118	175
464.h264ref	668	33.1	668	33.1	668	33.2	624	35.5	624	35.5	624	35.4
471.omnetpp	316	19.8	316	19.8	316	19.8	273	22.9	273	22.9	272	22.9
473.astar	431	16.3	431	16.3	431	16.3	380	18.5	380	18.5	380	18.5
483.xalancbmk	288	24.0	288	24.0	288	24.0	288	24.0	288	24.0	288	24.0

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
 The system bus runs at 1333 MHz
 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:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qpar-runtime-control -Qvec-guard-write /F512000000

C++ benchmarks:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

Peak Optimization Flags

C benchmarks:

400.perlbench: -QxSSE4.1(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: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias
/F512000000

403.gcc: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- /F512000000

429.mcf: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000

445.gobmk: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias
/F512000000

458.sjeng: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll14 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -QxSSE4.1(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: -QxSSE4.1(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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Tested with SPEC CPU2006 v1.1.

Report generated on Tue Nov 11 15:30:33 2008 by SPEC CPU2006 PS/PDF formatter v6197.

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