



SPEC® CINT2006 Result

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ASUSTeK Computer Inc.

SPECint®2006 = 26.8

Asus P5E3 Premium (Intel Core 2 Quad Q9550)

SPECint_base2006 = 24.4

CPU2006 license: 13

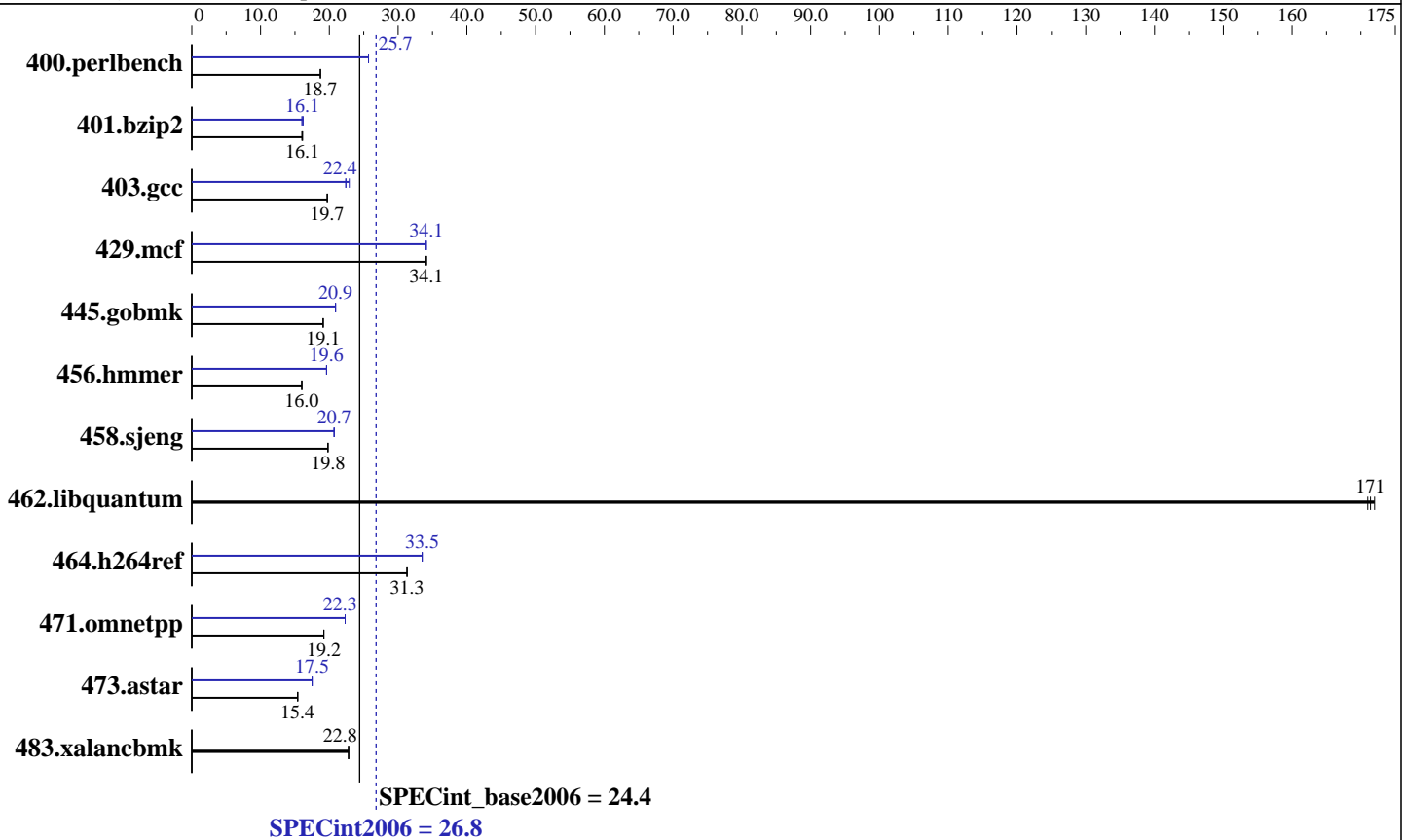
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Oct-2008

Hardware Availability: Apr-2008

Software Availability: Nov-2008



Hardware

CPU Name: Intel Core 2 Quad Q9550
 CPU Characteristics:
 CPU MHz: 2833
 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	522	18.7	<u>522</u>	<u>18.7</u>	523	18.7	380	25.7	380	25.7	<u>380</u>	<u>25.7</u>
401.bzip2	601	16.0	598	16.1	<u>600</u>	<u>16.1</u>	595	16.2	<u>599</u>	<u>16.1</u>	601	16.0
403.gcc	409	19.7	409	19.7	<u>409</u>	<u>19.7</u>	360	22.4	<u>360</u>	<u>22.4</u>	352	22.9
429.mcf	267	34.1	<u>268</u>	<u>34.1</u>	268	34.1	268	34.1	268	34.0	<u>268</u>	<u>34.1</u>
445.gobmk	548	19.1	<u>548</u>	<u>19.1</u>	548	19.1	501	20.9	502	20.9	<u>501</u>	<u>20.9</u>
456.hmmr	581	16.0	<u>581</u>	<u>16.0</u>	581	16.0	476	19.6	477	19.6	<u>476</u>	<u>19.6</u>
458.sjeng	<u>613</u>	<u>19.8</u>	613	19.8	613	19.8	584	20.7	<u>584</u>	<u>20.7</u>	584	20.7
462.libquantum	121	172	<u>121</u>	<u>171</u>	121	171	121	172	<u>121</u>	<u>171</u>	121	171
464.h264ref	707	31.3	707	31.3	<u>707</u>	<u>31.3</u>	661	33.5	661	33.5	<u>661</u>	<u>33.5</u>
471.omnetpp	325	19.2	<u>325</u>	<u>19.2</u>	325	19.2	280	22.3	<u>280</u>	<u>22.3</u>	280	22.3
473.astar	<u>455</u>	<u>15.4</u>	455	15.4	455	15.4	<u>401</u>	<u>17.5</u>	401	17.5	400	17.5
483.xalancbmk	<u>303</u>	<u>22.8</u>	303	22.8	303	22.8	<u>303</u>	<u>22.8</u>	303	22.8	303	22.8

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
 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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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.1.

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