



# SPEC® CINT2006 Result

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## Intel Corporation

SPECint®2006 = 28.1

Asus P5E3 Pro motherboard (Intel Core 2 Duo E8600)

SPECint\_base2006 = 27.0

CPU2006 license: 13

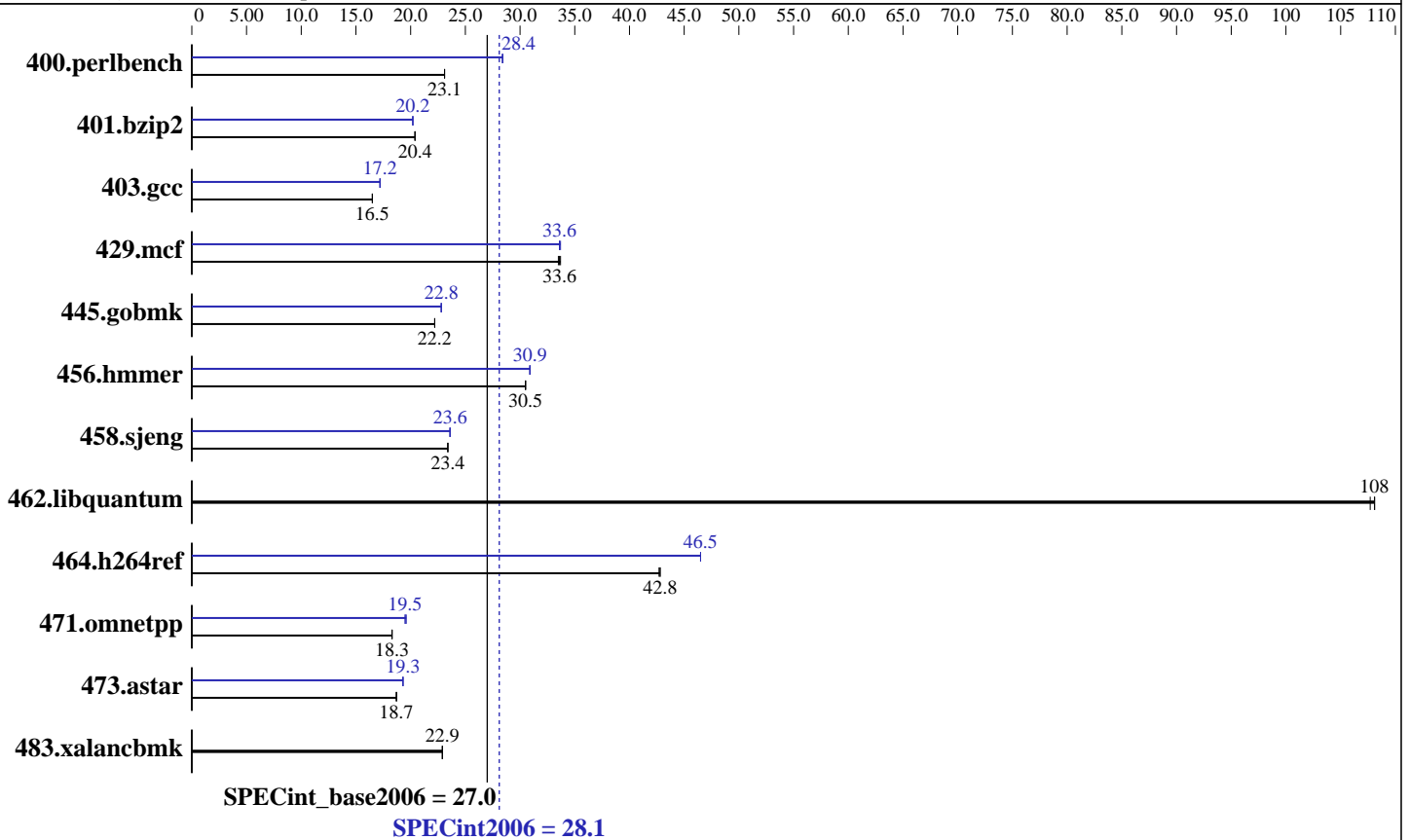
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2010

Hardware Availability: Jun-2009

Software Availability: Oct-2009



### Hardware

CPU Name: Intel Core 2 Duo E8600  
 CPU Characteristics: 3333  
 CPU MHz: 3333  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 6 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 4 GB (2x2GB Micron MT16JTF25664AZ-1G4 DDR3-1333 CL9)  
 Disk Subsystem: Intel X25-M 80GB SSD  
 Other Hardware: None

### Software

Operating System: Windows Vista Ultimate w/ SP1 (64-bit)  
 Compiler: Intel C++ Compiler Professional 11.1 for Intel 64 Build 20090903 Package ID: w\_cproc\_p\_11.1.045  
 Microsoft Visual Studio 2008 Professional SP1 (for libraries)  
 Auto Parallel: Yes  
 File System: NTFS  
 System State: Default  
 Base Pointers: 64-bit  
 Peak Pointers: 64-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	423	23.1	423	23.1	<b><u>423</u></b>	<b><u>23.1</u></b>	344	28.4	344	28.4	<b><u>344</u></b>	<b><u>28.4</u></b>
401.bzip2	474	20.4	<b><u>474</u></b>	<b><u>20.4</u></b>	474	20.4	478	20.2	<b><u>478</u></b>	<b><u>20.2</u></b>	478	20.2
403.gcc	488	16.5	<b><u>488</u></b>	<b><u>16.5</u></b>	488	16.5	469	17.2	<b><u>469</u></b>	<b><u>17.2</u></b>	469	17.2
429.mcf	271	33.7	<b><u>272</u></b>	<b><u>33.6</u></b>	272	33.5	271	33.6	<b><u>271</u></b>	<b><u>33.6</u></b>	271	33.7
445.gobmk	472	22.2	<b><u>472</u></b>	<b><u>22.2</u></b>	472	22.2	<b><u>460</u></b>	<b><u>22.8</u></b>	460	22.8	460	22.8
456.hmmer	306	30.5	<b><u>306</u></b>	<b><u>30.5</u></b>	306	30.5	302	30.9	<b><u>302</u></b>	<b><u>30.9</u></b>	302	30.9
458.sjeng	<b><u>517</u></b>	<b><u>23.4</u></b>	517	23.4	517	23.4	<b><u>512</u></b>	<b><u>23.6</u></b>	512	23.6	512	23.6
462.libquantum	192	108	192	108	<b><u>192</u></b>	<b><u>108</u></b>	192	108	192	108	<b><u>192</u></b>	<b><u>108</u></b>
464.h264ref	517	42.8	518	42.7	<b><u>517</u></b>	<b><u>42.8</u></b>	476	46.5	<b><u>476</u></b>	<b><u>46.5</u></b>	476	46.5
471.omnetpp	<b><u>342</u></b>	<b><u>18.3</u></b>	342	18.3	342	18.3	<b><u>320</u></b>	<b><u>19.5</u></b>	320	19.5	320	19.6
473.astar	376	18.7	376	18.7	<b><u>376</u></b>	<b><u>18.7</u></b>	<b><u>364</u></b>	<b><u>19.3</u></b>	364	19.3	364	19.3
483.xalancbmk	<b><u>301</u></b>	<b><u>22.9</u></b>	302	22.9	301	22.9	<b><u>301</u></b>	<b><u>22.9</u></b>	302	22.9	301	22.9

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  
 OMP\_NUM\_THREADS set to number of processors cores  
 KMP\_AFFINITY set to granularity=fine,scatter  
 System was configured with an ATI 5970 discrete graphics card

## Base Compiler Invocation

C benchmarks:  
 icl -Qvc9 -Qstd=c99

C++ benchmarks:  
 icl -Qvc9

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WIN64\_X64  
 -DSPEC\_CPU\_NO\_NEED\_VA\_COPY  
 401.bzip2: -DSPEC\_CPU\_P64  
 403.gcc: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WIN64  
 429.mcf: -DSPEC\_CPU\_P64  
 445.gobmk: -DSPEC\_CPU\_P64  
 456.hmmer: -DSPEC\_CPU\_P64

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## Base Portability Flags (Continued)

```

458.sjeng: -DSPEC_CPU_P64
462.libquantum: -DSPEC_CPU_P64
464.h264ref: -DSPEC_CPU_P64 -DWIN32 -DSPEC_CPU_NO_INTTYPES
471.omnetpp: -DSPEC_CPU_P64 -DSPEC_CPU_WIN64
473.astar: -DSPEC_CPU_P64
483.xalancbmk: -DSPEC_CPU_P64 -Qoption,cpp,--no_wchar_t_keyword

```

## Base Optimization Flags

C benchmarks:

```

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qauto-ilp32 /F512000000

```

C++ benchmarks:

```

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
-Qauto-ilp32 /F512000000 shlw64M.lib -link /FORCE:MULTIPLE

```

## Base Other Flags

C benchmarks:

```

403.gcc: -Dalloca=_alloca

```

## Peak Compiler Invocation

C benchmarks:

```

icl -Qvc9 -Qstd=c99

```

C++ benchmarks:

```

icl -Qvc9

```

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

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## Peak Optimization Flags (Continued)

400.perlbench: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch  
-Qauto-ilp32 /F512000000 shlw64M.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  
-Qauto-ilp32 /F512000000

403.gcc: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qauto-ilp32 /F512000000

429.mcf: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch  
-Qauto-ilp32 /F512000000

445.gobmk: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O2 -Qprec-div- -Qansi-alias -Qauto-ilp32  
/F512000000

456.hmmer: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
-Qauto-ilp32 /F512000000

458.sjeng: -QxSSE4.1(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll4 -Qauto-ilp32 /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  
-Qauto-ilp32 /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 -Qauto-ilp32 /F512000000  
shlw64M.lib -link /FORCE:MULTIPLE

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 -Qauto-ilp32 /F512000000  
shlw64M.lib -link /FORCE:MULTIPLE

483.xalancbmk: basepeak = yes



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## 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-ic11.0-winx64-revA.20100302.01.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-winx64-revA.20100302.01.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).

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