



# SPEC® CINT2006 Result

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ASUS Computer International

(Test Sponsor: Intel Corporation)

SPECint®2006 = 18.5

ASUS P5K3 motherboard (Intel Core 2 Quad Q6600)

SPECint\_base2006 = 16.5

CPU2006 license: 13

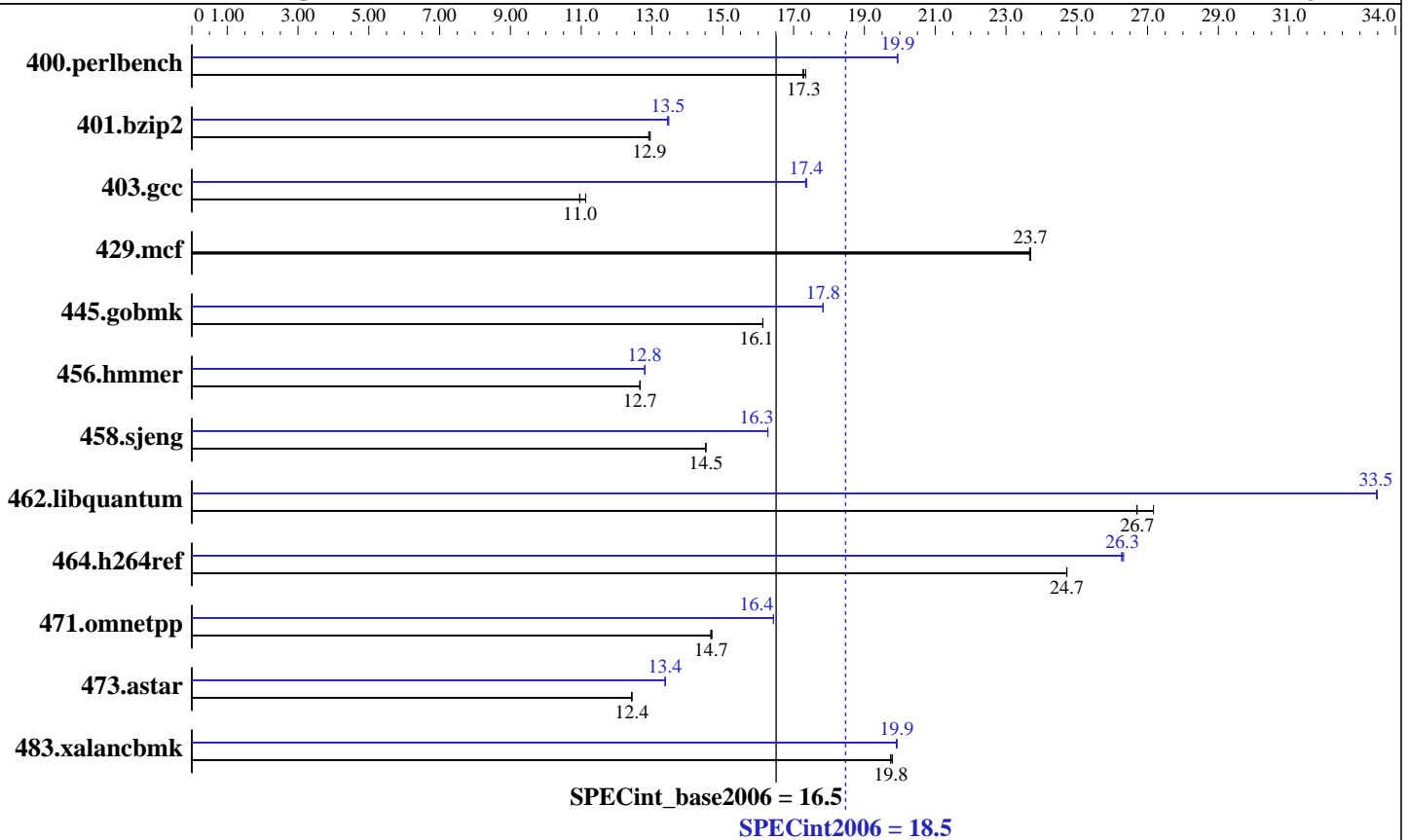
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2007

Hardware Availability: Jul-2007

Software Availability: Aug-2006



## Hardware

CPU Name: Intel Core 2 Quad Q6600  
 CPU Characteristics: 2.40 GHz, 1066 MHz bus  
 CPU MHz: 2400  
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 2 GB (2x1GB ELPIDA PC3-8500U-7-00-BP DDR3-1066 7-7-7-20)  
 Disk Subsystem: Seagate ST3320620AS 320GB Barracuda 7200.10 NCQ SATA II  
 Other Hardware: None

## Software

Operating System: Windows Vista32 Ultimate  
 Compiler: Intel C++ Compiler for IA32 version 10.0 Build 20070426 Package ID: W\_CC\_P\_10.0.025 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: SmartHeap Library Version 8.0 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	<b>565</b>	<b>17.3</b>	566	17.3	563	17.3	490	19.9	<b>490</b>	<b>19.9</b>	490	19.9
401.bzip2	748	12.9	<b>747</b>	<b>12.9</b>	745	13.0	716	13.5	<b>717</b>	<b>13.5</b>	718	13.4
403.gcc	723	11.1	735	11.0	<b>734</b>	<b>11.0</b>	<b>464</b>	<b>17.4</b>	463	17.4	464	17.3
429.mcf	385	23.7	385	23.7	<b>385</b>	<b>23.7</b>	385	23.7	385	23.7	<b>385</b>	<b>23.7</b>
445.gobmk	650	16.1	650	16.1	<b>650</b>	<b>16.1</b>	588	17.8	588	17.8	<b>588</b>	<b>17.8</b>
456.hammer	<b>737</b>	<b>12.7</b>	737	12.7	737	12.7	<b>729</b>	<b>12.8</b>	729	12.8	729	12.8
458.sjeng	833	14.5	833	14.5	<b>833</b>	<b>14.5</b>	744	16.3	<b>744</b>	<b>16.3</b>	744	16.3
462.libquantum	763	27.2	776	26.7	<b>776</b>	<b>26.7</b>	619	33.5	<b>619</b>	<b>33.5</b>	619	33.5
464.h264ref	<b>895</b>	<b>24.7</b>	895	24.7	895	24.7	841	26.3	<b>842</b>	<b>26.3</b>	843	26.3
471.omnetpp	<b>426</b>	<b>14.7</b>	426	14.7	425	14.7	<b>380</b>	<b>16.4</b>	380	16.4	380	16.4
473.astar	565	12.4	565	12.4	<b>565</b>	<b>12.4</b>	525	13.4	525	13.4	<b>525</b>	<b>13.4</b>
483.xalancbmk	349	19.8	<b>349</b>	<b>19.8</b>	350	19.7	346	19.9	<b>347</b>	<b>19.9</b>	347	19.9

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, Antec NeoPower 480W power supply  
 Product description located as of 7/2007:  
<http://usa.asus.com/products.aspx?l1=3&l2=11&l3=534&l4=0&model=1645&modelmenu=1>  
 The system bus runs at 1333 MHz  
 System has a discrete gfx card - Asus EN8800GTX/HTDP/768M w/ nVidia 8800GTX  
 Binaries were built on Windows XP Professional SP2 with 4GB of RAM and /3GB boot switch

## Base Compiler Invocation

C benchmarks:  
 icl -Qvc7.1 -Qc99

C++ benchmarks:  
 icl -Qvc7.1

## Base Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
 464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32



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## Base Optimization Flags

C benchmarks:

`-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

C++ benchmarks:

`-fast -Qcxx_features /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE`

## Base Other Flags

C benchmarks:

`403.gcc: -Dalloca=_alloca`

## Peak Compiler Invocation

C benchmarks:

`icl -Qvc7.1 -Qc99`

C++ benchmarks:

`icl -Qvc7.1`

## Peak Portability Flags

`403.gcc: -DSPEC_CPU_WIN32  
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32`

## Peak Optimization Flags

C benchmarks:

`400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias  
-Qprefetch /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE`

`401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000  
shlw32m.lib -link /FORCE:MULTIPLE`

`403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000  
-link /FORCE:MULTIPLE`

`429.mcf: basepeak = yes`

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## Peak Optimization Flags (Continued)

445.gobmk: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxT -O2 -Qipo  
-Qprec\_div- -Qansi-alias /F512000000  
-link /FORCE:MULTIPLE

456.hmmer: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qansi-alias /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

458.sjeng: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll4  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll4  
-Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000  
shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:

-Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qcxx\_features /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

## 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-ic10-ia32-intel64-linux-flags.20090714.42.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.42.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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