



# SPEC<sup>®</sup> CINT2006 Result

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## Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9550)

SPECint<sup>®</sup>\_rate2006 = 68.0

SPECint\_rate\_base2006 = 61.0

CPU2006 license: 13

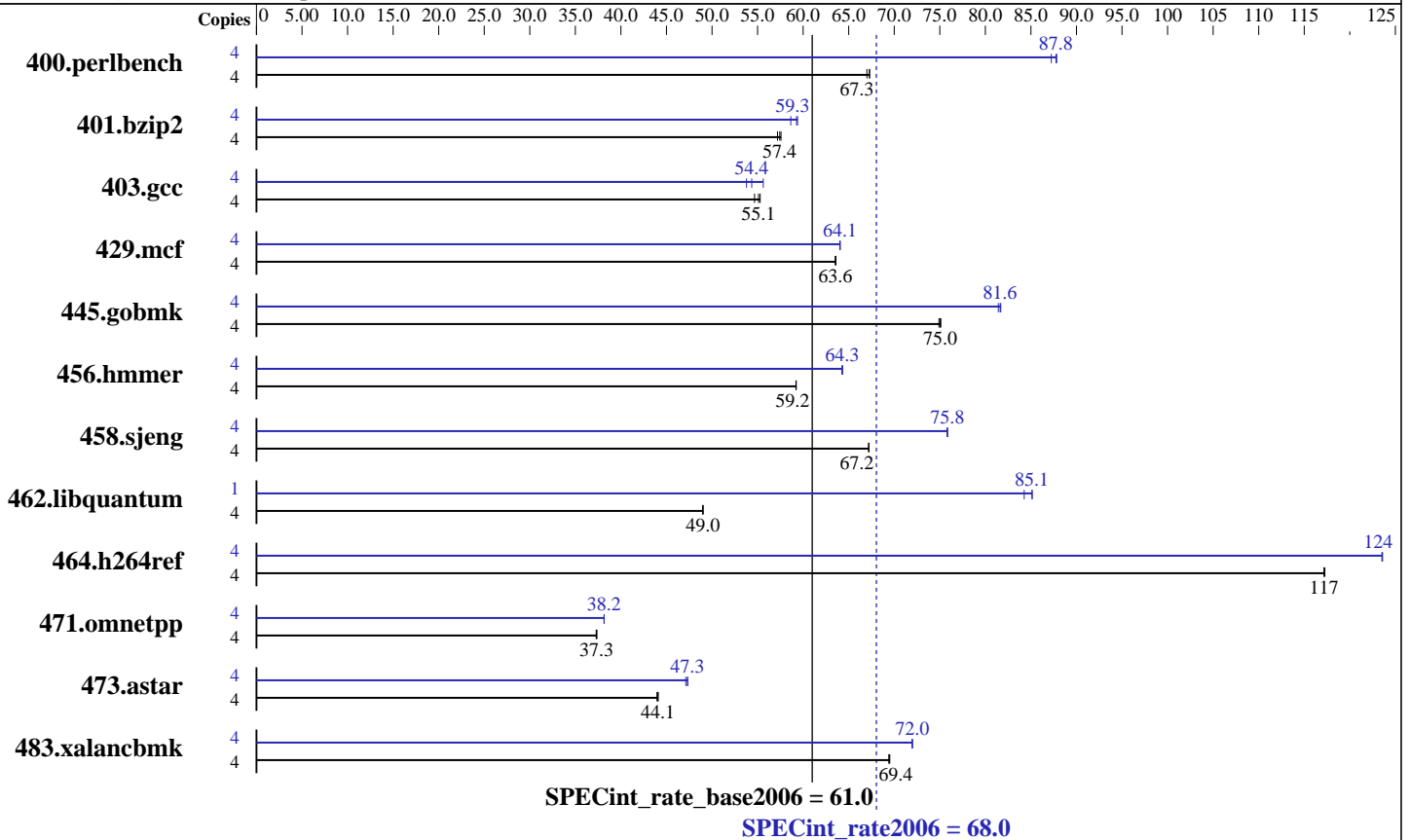
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Core 2 Quad Q9550  
 CPU Characteristics: 2.83 GHz, 1333 FSB  
 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 (4x1GB Micron DDR2-800 CL5)  
 Disk Subsystem: Seagate 320GB NCQ SATA, 16MB cache, 7200 RPM  
 Other Hardware: None

### Software

Operating System: Windows Vista Ultimate (64-bit)  
 Compiler: Intel C++ Compiler for IA32 version 10.1  
 Build 20070913 Package ID: w\_cc\_p\_10.1.011  
 Microsoft Visual Studio 2005 SP1 (for libraries)  
 Auto Parallel: Yes  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: SmartHeap Library Version 8.1 from <http://www.microquill.com/>



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## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	<b>581</b>	<b>67.3</b>	583	67.0	581	67.3	4	445	87.8	<b>445</b>	<b>87.8</b>	448	87.2
401.bzip2	4	<b>672</b>	<b>57.4</b>	670	57.6	675	57.2	4	650	59.4	658	58.6	<b>651</b>	<b>59.3</b>
403.gcc	4	582	55.3	589	54.7	<b>584</b>	<b>55.1</b>	4	<b>592</b>	<b>54.4</b>	579	55.6	599	53.8
429.mcf	4	574	63.5	574	63.6	<b>574</b>	<b>63.6</b>	4	<b>570</b>	<b>64.1</b>	569	64.1	570	64.0
445.gobmk	4	560	74.9	559	75.1	<b>559</b>	<b>75.0</b>	4	515	81.4	514	81.7	<b>514</b>	<b>81.6</b>
456.hammer	4	630	59.2	<b>630</b>	<b>59.2</b>	630	59.2	4	580	64.3	581	64.3	<b>581</b>	<b>64.3</b>
458.sjeng	4	720	67.2	720	67.2	<b>720</b>	<b>67.2</b>	4	638	75.8	<b>638</b>	<b>75.8</b>	639	75.8
462.libquantum	4	1692	49.0	1691	49.0	<b>1691</b>	<b>49.0</b>	1	243	85.1	<b>243</b>	<b>85.1</b>	246	84.3
464.h264ref	4	<b>755</b>	<b>117</b>	755	117	755	117	4	716	124	717	124	<b>717</b>	<b>124</b>
471.omnetpp	4	671	37.3	<b>670</b>	<b>37.3</b>	669	37.4	4	655	38.2	655	38.2	<b>655</b>	<b>38.2</b>
473.astar	4	<b>637</b>	<b>44.1</b>	639	44.0	637	44.1	4	<b>593</b>	<b>47.3</b>	593	47.3	596	47.1
483.xalancbmk	4	397	69.5	398	69.4	<b>397</b>	<b>69.4</b>	4	383	72.0	<b>383</b>	<b>72.0</b>	384	71.9

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 03/2008:

<http://www.intel.com/products/motherboard/DQ35JO/index.htm>

The system bus runs at 1333 MHz

System was configured with Asus EN8800GTX discrete graphics card

Binaries were built on Windows Vista Ultimate (32-bit)

The following VS 2005 SP1 updates were applied: KB926601 and KB932232

OMP\_NUM\_THREADS was set to number of logical processors as seen by the OS

KMP\_AFFINITY was set to physical,0

submit was disabled for 462.libquantum at peak.

## Base Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

## Base Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32

464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32

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## Base Portability Flags (Continued)

483.xalanbmk: -Qoption,cpp,--no\_wchar\_t\_keyword

## Base Optimization Flags

C benchmarks:

-fast -Qvec-guard-write /F512000000

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 -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

## Peak Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32  
483.xalanbmk: -Qoption,cpp,--no\_wchar\_t\_keyword

## 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

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## Peak Optimization Flags (Continued)

401.bzips2: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qprefetch /F512000000

403.gcc: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F512000000

429.mcf: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qprefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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

456.hmmer: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2 -Qansi-alias -Qopt-multi-version-aggressive /F512000000

458.sjeng: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll4 /F512000000

462.libquantum: -fast -Qunroll14 -Ob0 -Qprefetch -Qopt-streaming-stores:always -Qparallel -Qpar-runtime-control /F512000000

464.h264ref: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll12 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=block -Qcxx\_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=routine -Qcxx\_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: -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-ic10.1-win32-flags.html>



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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-flags.xml>

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

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