



# SPEC® CINT2006 Result

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## Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9550)

SPECint®2006 = 23.5

SPECint\_base2006 = 20.6

CPU2006 license: 13

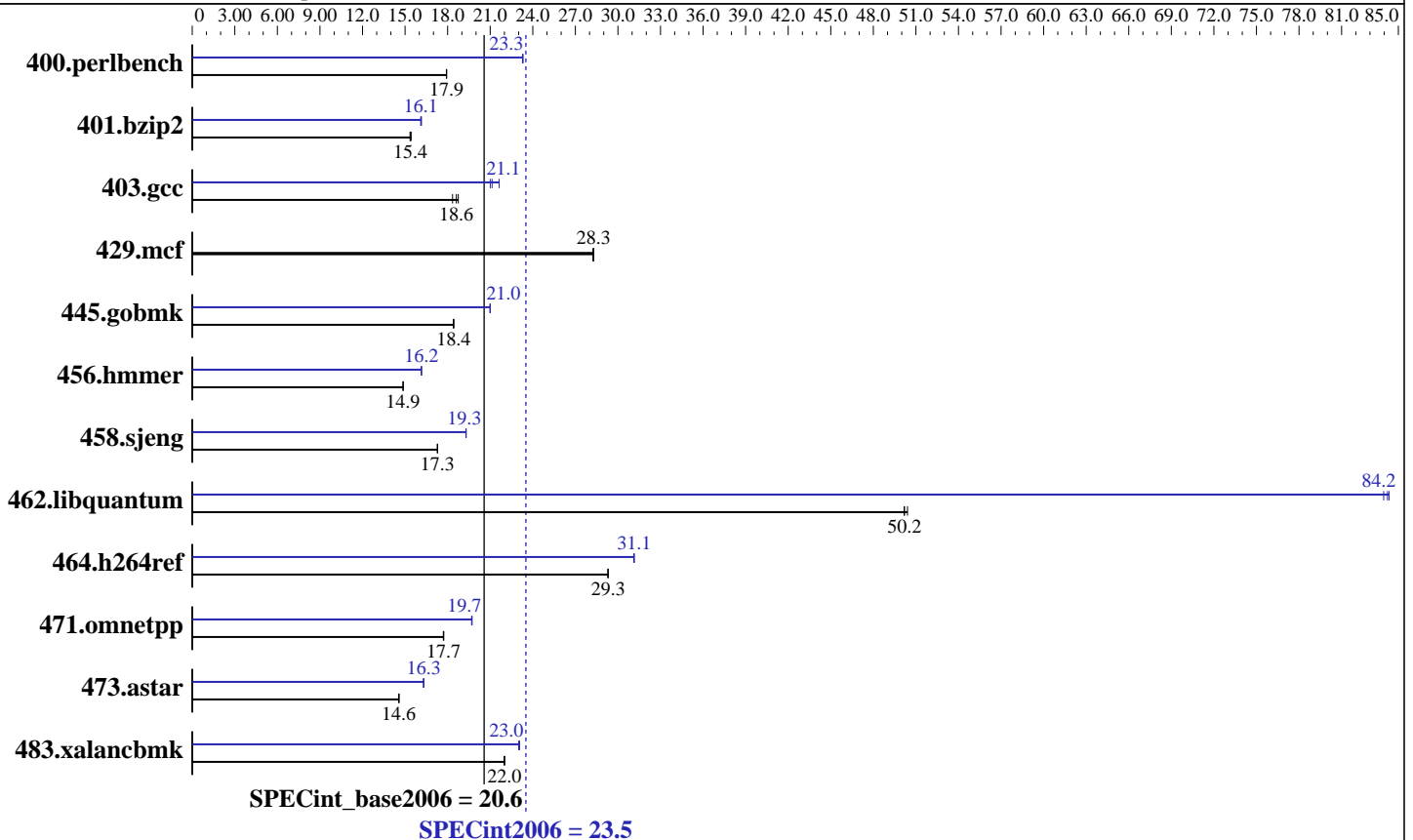
Test sponsor: Intel Corporation

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	545	17.9	<b><u>545</u></b>	<b><u>17.9</u></b>	545	17.9	420	23.3	<b><u>419</u></b>	<b><u>23.3</u></b>	419	23.3
401.bzip2	626	15.4	629	15.4	<b><u>627</u></b>	<b><u>15.4</u></b>	599	16.1	<b><u>598</u></b>	<b><u>16.1</u></b>	597	16.2
403.gcc	439	18.3	<b><u>433</u></b>	<b><u>18.6</u></b>	429	18.7	383	21.0	<b><u>381</u></b>	<b><u>21.1</u></b>	372	21.6
429.mcf	323	28.2	322	28.3	<b><u>322</u></b>	<b><u>28.3</u></b>	323	28.2	322	28.3	<b><u>322</u></b>	<b><u>28.3</u></b>
445.gobmk	570	18.4	569	18.4	<b><u>569</u></b>	<b><u>18.4</u></b>	500	21.0	<b><u>500</u></b>	<b><u>21.0</u></b>	499	21.0
456.hammer	628	14.9	<b><u>628</u></b>	<b><u>14.9</u></b>	628	14.9	578	16.2	578	16.1	<b><u>578</u></b>	<b><u>16.2</u></b>
458.sjeng	700	17.3	<b><u>700</u></b>	<b><u>17.3</u></b>	700	17.3	<b><u>627</u></b>	<b><u>19.3</u></b>	627	19.3	627	19.3
462.libquantum	<b><u>413</u></b>	<b><u>50.2</u></b>	413	50.2	411	50.4	<b><u>246</u></b>	<b><u>84.2</u></b>	247	84.0	246	84.3
464.h264ref	756	29.3	755	29.3	<b><u>755</u></b>	<b><u>29.3</u></b>	711	31.1	711	31.1	<b><u>711</u></b>	<b><u>31.1</u></b>
471.omnetpp	353	17.7	<b><u>353</u></b>	<b><u>17.7</u></b>	353	17.7	<b><u>317</u></b>	<b><u>19.7</u></b>	317	19.7	317	19.7
473.astar	482	14.6	<b><u>482</u></b>	<b><u>14.6</u></b>	482	14.6	431	16.3	<b><u>430</u></b>	<b><u>16.3</u></b>	430	16.3
483.xalancbmk	314	22.0	313	22.0	<b><u>313</u></b>	<b><u>22.0</u></b>	300	23.0	299	23.1	<b><u>299</u></b>	<b><u>23.0</u></b>

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

## 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
```

```
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword
```



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## Base Optimization Flags

C benchmarks:

```
-fast -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000
libguide40.lib
```

C++ benchmarks:

```
-fast -Qcxx_features /F512000000 shlw32m.lib libguide40.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.xalancbmk: -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 -Qparallel -Qpar-runtime-control /F512000000
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000 libguide40.lib

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
libguide40.lib
```

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## Peak Optimization Flags (Continued)

429.mcf: basepeak = yes

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  
libguide40.lib

458.sjeng: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll4  
/F512000000 libguide40.lib

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch  
-Qopt-streaming-stores:always -Qparallel  
-Qpar-runtime-control /F512000000 libguide40.lib

464.h264ref: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qansi-alias /F512000000 libguide40.lib

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 libguide40.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 libguide40.lib -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qcxx\_features /F512000000 shlw32m.lib libguide40.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>

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 questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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