



# SPEC® CINT2006 Result

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## Intel Corporation

SPECint®\_rate2006 = 32.7

Intel DQ965GF motherboard (Intel Core 2 Duo E6700)

SPECint\_rate\_base2006 = 29.4

CPU2006 license: 13

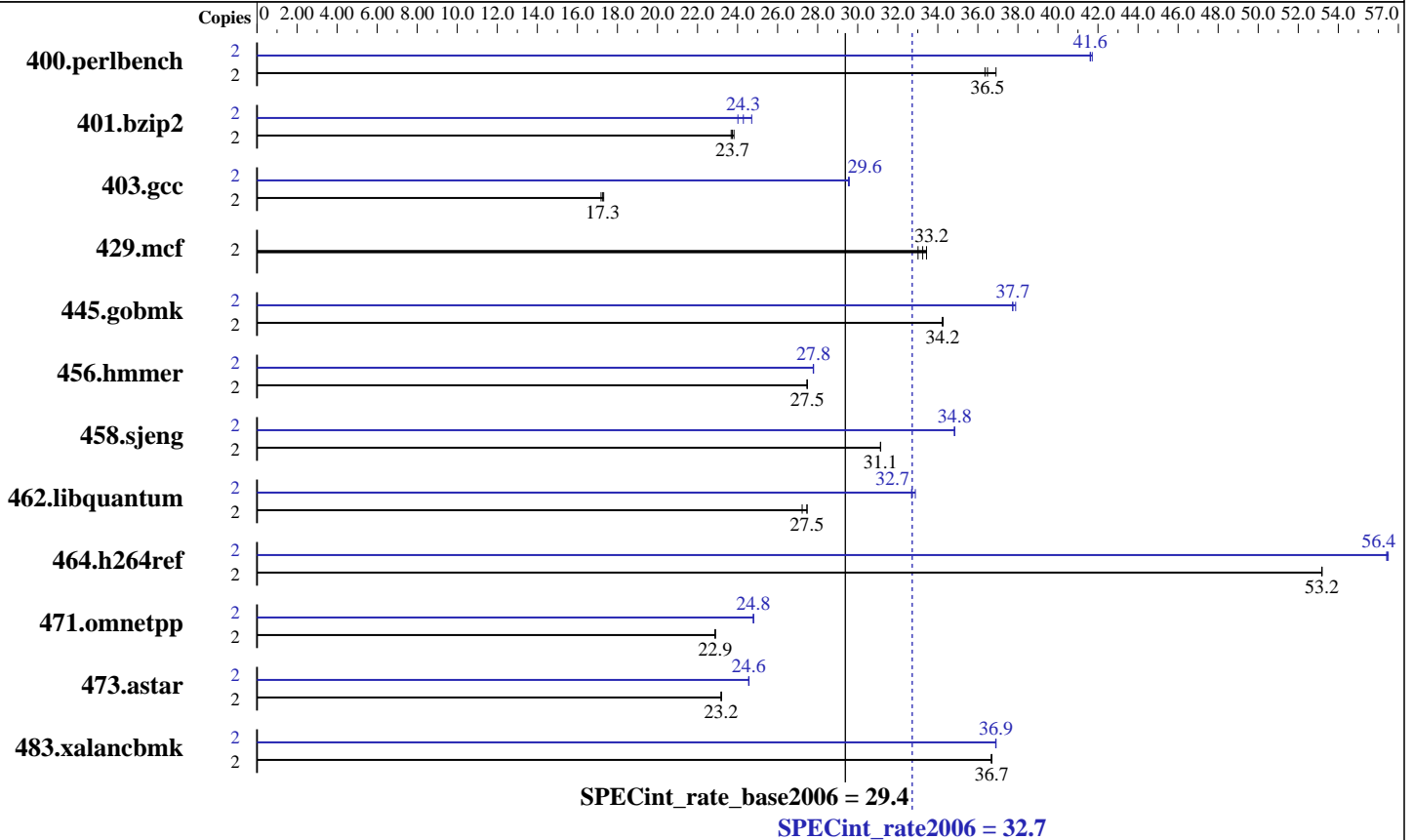
Test date: Jun-2007

Test sponsor: Intel Corporation

Hardware Availability: Aug-2006

Tested by: Intel Corporation

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Core 2 Duo E6700  
 CPU Characteristics: 2.67 GHz, 1066 MHz bus  
 CPU MHz: 2667  
 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: 4 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 2 GB (2 1GB Micron MT16HTF12864AY-80ED4 DDR2 800, CL5)  
 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							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	529	36.9	537	36.4	<u>536</u>	<u>36.5</u>	2	468	41.7	470	41.6	<u>469</u>	<u>41.6</u>
401.bzip2	2	810	23.8	815	23.7	<u>813</u>	<u>23.7</u>	2	781	24.7	<u>795</u>	<u>24.3</u>	804	24.0
403.gcc	2	937	17.2	<u>933</u>	<u>17.3</u>	930	17.3	2	<u>544</u>	<u>29.6</u>	544	29.6	545	29.5
429.mcf	2	546	33.4	553	33.0	<u>549</u>	<u>33.2</u>	2	546	33.4	553	33.0	<u>549</u>	<u>33.2</u>
445.gobmk	2	613	34.2	<u>613</u>	<u>34.2</u>	612	34.3	2	556	37.7	<u>556</u>	<u>37.7</u>	554	37.9
456.hammer	2	679	27.5	679	27.5	<u>679</u>	<u>27.5</u>	2	<u>671</u>	<u>27.8</u>	672	27.8	671	27.8
458.sjeng	2	777	31.1	777	31.1	<u>777</u>	<u>31.1</u>	2	695	34.8	695	34.8	<u>695</u>	<u>34.8</u>
462.libquantum	2	<u>1509</u>	<u>27.5</u>	1522	27.2	1508	27.5	2	1260	32.9	1268	32.7	<u>1267</u>	<u>32.7</u>
464.h264ref	2	832	53.2	832	53.2	<u>832</u>	<u>53.2</u>	2	783	56.5	784	56.4	<u>784</u>	<u>56.4</u>
471.omnetpp	2	546	22.9	546	22.9	<u>546</u>	<u>22.9</u>	2	504	24.8	504	24.8	<u>504</u>	<u>24.8</u>
473.astar	2	606	23.2	605	23.2	<u>606</u>	<u>23.2</u>	2	571	24.6	<u>572</u>	<u>24.6</u>	572	24.6
483.xalancbmk	2	376	36.7	<u>376</u>	<u>36.7</u>	376	36.7	2	<u>374</u>	<u>36.9</u>	374	36.9	374	36.9

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://www.intel.com/products/motherboard/DQ965GF/index.htm>

The system bus runs at 1066 MHz

System was configured with integrated graphics card

Binaries were built on Windows XP Professional SP2 with 4GB of RAM and /3GB boot switch

The start command with the /affinity switch was used to bind processes to cores

## 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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