



# SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Intel Corporation

**SPECint®2006 = 28.2**

Intel DH57JG Motherboard (Intel Core i3-530)

**SPECint\_base2006 = 26.9**

CPU2006 license: 13

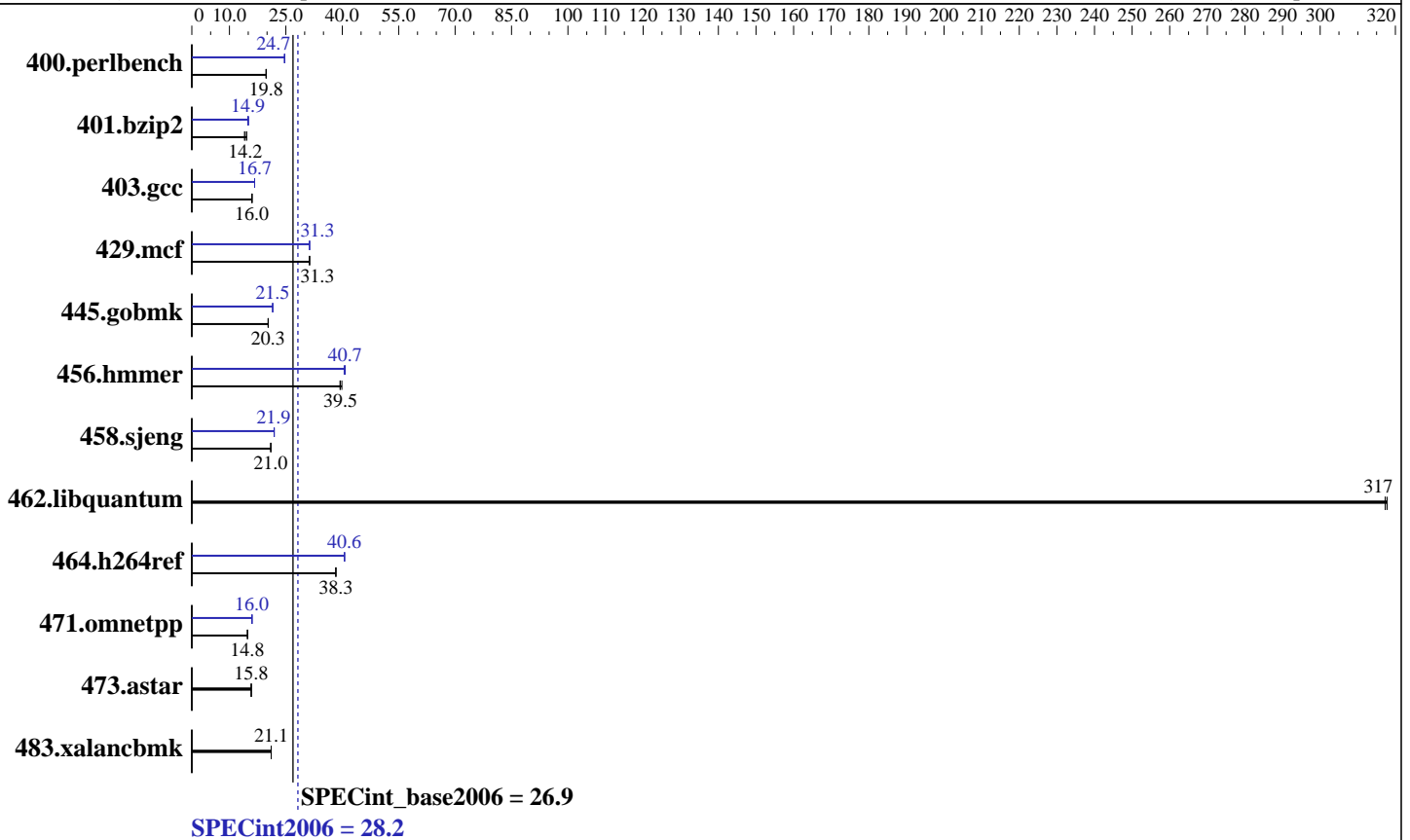
Test date: Jul-2011

Test sponsor: Intel Corporation

Hardware Availability: Jan-2010

Tested by: Intel Corporation

Software Availability: Apr-2011



### Hardware

CPU Name: Intel Core i3-530  
 CPU Characteristics:  
 CPU MHz: 2933  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip, 2 threads/core  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 256 KB I+D on chip per core  
 L3 Cache: 4 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 4 GB (2 x 2 GB 2Rx8 PC3-10600U-9)  
 Disk Subsystem: Seagate 1 TB SATA, 7200 RPM  
 Other Hardware: None

### Software

Operating System: Windows 7 Ultimate (64-bit)  
 Compiler: Intel C++ Compiler XE for Intel64  
 Version 12.0.3.176 Build 20110309  
 Microsoft Visual Studio 2008 Professional SP1  
 (for libraries)  
 Auto Parallel: Yes  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32/64-bit  
 Peak Pointers: 32/64-bit  
 Other Software: SmartHeap Library Version 9.01 from  
<http://www.microquill.com/>



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECint2006 = 28.2

Intel DH57JG Motherboard (Intel Core i3-530)

SPECint\_base2006 = 26.9

CPU2006 license: 13

Test date: Jul-2011

Test sponsor: Intel Corporation

Hardware Availability: Jan-2010

Tested by: Intel Corporation

Software Availability: Apr-2011

## Results Table

| Benchmark      | Base       |             |             |             |            |             | Peak       |             |             |             |            |             |
|----------------|------------|-------------|-------------|-------------|------------|-------------|------------|-------------|-------------|-------------|------------|-------------|
|                | Seconds    | Ratio       | Seconds     | Ratio       | Seconds    | Ratio       | Seconds    | Ratio       | Seconds     | Ratio       | Seconds    | Ratio       |
| 400.perlbench  | 496        | 19.7        | 494         | 19.8        | <b>494</b> | <b>19.8</b> | 396        | 24.7        | 397         | 24.6        | <b>396</b> | <b>24.7</b> |
| 401.bzip2      | <b>678</b> | <b>14.2</b> | 689         | 14.0        | 660        | 14.6        | <b>646</b> | <b>14.9</b> | 639         | 15.1        | 647        | 14.9        |
| 403.gcc        | <b>504</b> | <b>16.0</b> | 504         | 16.0        | 504        | 16.0        | 481        | 16.7        | <b>481</b>  | <b>16.7</b> | 481        | 16.7        |
| 429.mcf        | 291        | 31.3        | 291         | 31.3        | <b>291</b> | <b>31.3</b> | 291        | 31.3        | 291         | 31.3        | <b>291</b> | <b>31.3</b> |
| 445.gobmk      | 516        | 20.3        | <b>517</b>  | <b>20.3</b> | 517        | 20.3        | <b>488</b> | <b>21.5</b> | 488         | 21.5        | 488        | 21.5        |
| 456.hmmer      | 234        | 39.9        | 237         | 39.4        | <b>236</b> | <b>39.5</b> | 231        | 40.5        | 228         | 40.8        | <b>230</b> | <b>40.7</b> |
| 458.sjeng      | 576        | 21.0        | <b>576</b>  | <b>21.0</b> | 576        | 21.0        | 552        | 21.9        | 552         | 21.9        | <b>552</b> | <b>21.9</b> |
| 462.libquantum | 65.2       | 318         | <b>65.3</b> | <b>317</b>  | 65.3       | 317         | 65.2       | 318         | <b>65.3</b> | <b>317</b>  | 65.3       | 317         |
| 464.h264ref    | 578        | 38.3        | <b>578</b>  | <b>38.3</b> | 578        | 38.3        | 545        | 40.6        | <b>545</b>  | <b>40.6</b> | 546        | 40.6        |
| 471.omnetpp    | 423        | 14.8        | 423         | 14.8        | <b>423</b> | <b>14.8</b> | 392        | 16.0        | <b>392</b>  | <b>16.0</b> | 392        | 16.0        |
| 473.astar      | 443        | 15.8        | 443         | 15.8        | <b>443</b> | <b>15.8</b> | 443        | 15.8        | 443         | 15.8        | <b>443</b> | <b>15.8</b> |
| 483.xalancbmk  | 327        | 21.1        | <b>327</b>  | <b>21.1</b> | 327        | 21.1        | 327        | 21.1        | <b>327</b>  | <b>21.1</b> | 327        | 21.1        |

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

## 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
458.sjeng: -DSPEC_CPU_P64

```

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECint2006 = 28.2

Intel DH57JG Motherboard (Intel Core i3-530)

SPECint\_base2006 = 26.9

CPU2006 license: 13

Test date: Jul-2011

Test sponsor: Intel Corporation

Hardware Availability: Jan-2010

Tested by: Intel Corporation

Software Availability: Apr-2011

## Base Portability Flags (Continued)

```

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:

```

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qauto-ilp32 /F512000000

```

C++ benchmarks:

```

-QxSSE4.2 -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:

```

400.perlbench: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
-Qauto-ilp32 /F512000000 shlw64M.lib

```

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECint2006 = 28.2

Intel DH57JG Motherboard (Intel Core i3-530)

SPECint\_base2006 = 26.9

CPU2006 license: 13

Test date: Jul-2011

Test sponsor: Intel Corporation

Hardware Availability: Jan-2010

Tested by: Intel Corporation

Software Availability: Apr-2011

## Peak Optimization Flags (Continued)

400.perlbench (continued):

-link /FORCE:MULTIPLE

401.bzip2: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias  
-Qauto-ilp32 /F512000000

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

429.mcf: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch  
-Qauto-ilp32 /F512000000

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

456.hmmer: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
-Qauto-ilp32 /F512000000

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

462.libquantum: basepeak = yes

464.h264ref: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
-Qauto-ilp32 /F512000000

C++ benchmarks:

471.omnetpp: -QxSSE4.2(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: basepeak = yes

483.xalancbmk: basepeak = yes

## Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECint2006 = 28.2

Intel DH57JG Motherboard (Intel Core i3-530)

SPECint\_base2006 = 26.9

CPU2006 license: 13

Test date: Jul-2011

Test sponsor: Intel Corporation

Hardware Availability: Jan-2010

Tested by: Intel Corporation

Software Availability: Apr-2011

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic12-winx64-revC.html>

<http://www.spec.org/cpu2006/flags/Intel-Windows-Platform-Settings.20110719.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic12-winx64-revC.xml>

<http://www.spec.org/cpu2006/flags/Intel-Windows-Platform-Settings.20110719.xml>

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.1.  
Report generated on Wed Jul 23 22:11:27 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 22 August 2011.