



# SPEC<sup>®</sup> CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Intel Corporation

**SPECint<sup>®</sup>2006 = 52.4**

Intel DH67BL motherboard (Intel Core i7-2700K)

**SPECint\_base2006 = 49.9**

CPU2006 license: 13

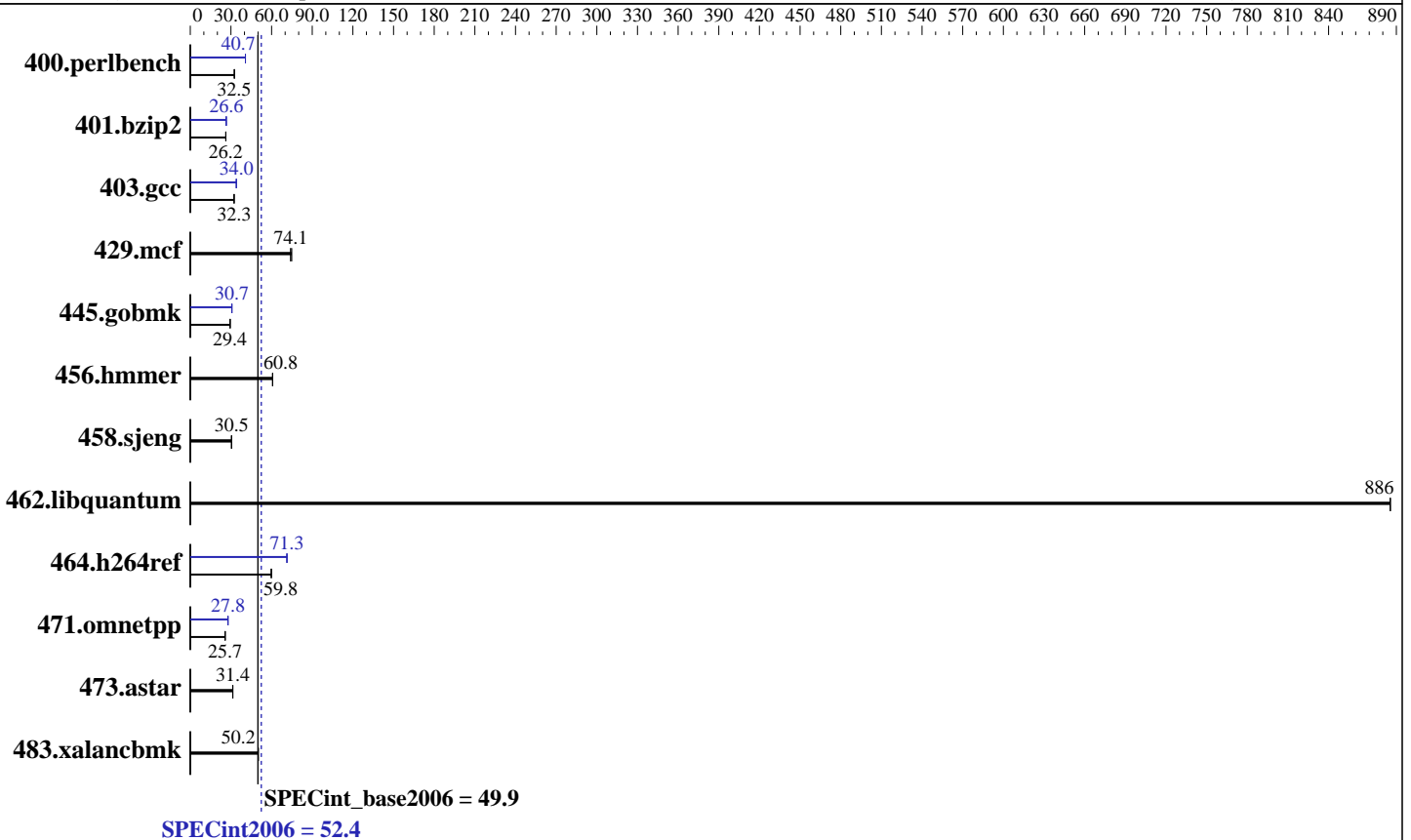
Test date: May-2014

Test sponsor: Intel Corporation

Hardware Availability: Dec-2012

Tested by: Intel Corporation

Software Availability: Oct-2013



### Hardware

CPU Name: Intel Core i7-2700K  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.90 GHz  
 CPU MHz: 3500  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 4 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: 8 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 8 GB (2 x 4 GB 2Rx4 PC3-10600U-9)  
 Disk Subsystem: 180 GB Intel SSD 530  
 Other Hardware: None

### Software

Operating System: Microsoft Windows 8.1 Pro  
 6.3.9600 N/A Build 9600  
 Compiler: C/C++: Version 14.0.1.139 of Intel C++ Studio XE for Windows;  
 Libraries: Version 16.00.30319.01 of Microsoft Visual Studio 2010 Professional SP1  
 Auto Parallel: Yes  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32/64-bit  
 Peak Pointers: 32/64-bit  
 Other Software: SmartHeap Library Version 10.0 from <http://www.microquill.com/>



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECint2006 = 52.4

Intel DH67BL motherboard (Intel Core i7-2700K)

SPECint\_base2006 = 49.9

CPU2006 license: 13

Test date: May-2014

Test sponsor: Intel Corporation

Hardware Availability: Dec-2012

Tested by: Intel Corporation

Software Availability: Oct-2013

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	301	32.5	<b>300</b>	<b>32.5</b>	300	32.6	240	40.7	240	40.7	<b>240</b>	<b>40.7</b>
401.bzip2	369	26.2	<b>368</b>	<b>26.2</b>	367	26.3	363	26.6	<b>363</b>	<b>26.6</b>	365	26.4
403.gcc	<b>249</b>	<b>32.3</b>	249	32.4	249	32.3	237	34.0	<b>237</b>	<b>34.0</b>	237	34.0
429.mcf	<b>123</b>	<b>74.1</b>	122	74.9	123	74.1	<b>123</b>	<b>74.1</b>	122	74.9	123	74.1
445.gobmk	357	29.4	357	29.4	<b>357</b>	<b>29.4</b>	341	30.7	<b>341</b>	<b>30.7</b>	341	30.7
456.hammer	153	60.8	154	60.7	<b>154</b>	<b>60.8</b>	153	60.8	154	60.7	<b>154</b>	<b>60.8</b>
458.sjeng	<b>397</b>	<b>30.5</b>	397	30.5	398	30.4	<b>397</b>	<b>30.5</b>	397	30.5	398	30.4
462.libquantum	23.4	886	<b>23.4</b>	<b>886</b>	23.4	886	23.4	886	<b>23.4</b>	<b>886</b>	23.4	886
464.h264ref	370	59.8	<b>370</b>	<b>59.8</b>	370	59.8	310	71.4	<b>310</b>	<b>71.3</b>	310	71.3
471.omnetpp	<b>243</b>	<b>25.7</b>	244	25.7	243	25.8	224	27.9	225	27.8	<b>225</b>	<b>27.8</b>
473.astar	<b>224</b>	<b>31.4</b>	224	31.3	224	31.4	<b>224</b>	<b>31.4</b>	224	31.3	224	31.4
483.xalancbmk	138	50.2	<b>138</b>	<b>50.2</b>	138	50.1	138	50.2	<b>138</b>	<b>50.2</b>	138	50.1

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Compiler Invocation Notes

To compile these binaries, the Intel Compiler 14.0 was set up to generate 64-bit binaries with the command:  
"ipsxe-comp-vars.bat intel64 vs2010" (shortcut provided in the Intel(r) Parallel Studio XE 2013 program folder)

## Platform Notes

Sysinfo program C:\SPEC14.0\Docs\sysinfo  
\$Rev: 6775 \$ \$Date: 2011-08-16 # \$ \8787f7622badcf24e01c368b1db4377c  
running on IVB9600 Wed May 28 17:07:55 2014

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:  
<http://www.spec.org/cpu2006/Docs/config.html#sysinfo>

```
Trying 'systeminfo'
OS Name       : Microsoft Windows 8.1 Pro
OS Version    : 6.3.9600 N/A Build 9600
System Manufacturer: INTEL_
System Model   : DH67BL_
Processor(s)  : 1 Processor(s) Installed.
               [01]: Intel64 Family 6 Model 42 Stepping 7 GenuineIntel ~3501 Mhz
BIOS Version  : Intel Corp. BLH6710H.86A.0160.2012.1204.1156, 12/4/2012
Total Physical Memory: 8,099 MB
```

```
Trying 'wmic cpu get /value'
DeviceID      : CPU0
```

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECint2006 = 52.4

Intel DH67BL motherboard (Intel Core i7-2700K)

SPECint\_base2006 = 49.9

CPU2006 license: 13

Test date: May-2014

Test sponsor: Intel Corporation

Hardware Availability: Dec-2012

Tested by: Intel Corporation

Software Availability: Oct-2013

## Platform Notes (Continued)

L2CacheSize : 1024  
L3CacheSize : 8192  
MaxClockSpeed : 3501  
Name : Intel(R) Core(TM) i7-2700K CPU @ 3.50GHz  
NumberOfCores : 4  
NumberOfLogicalProcessors: 8

(End of data from sysinfo program)

BIOS: SATA mode set to RAID

Windows Disk Driver: Intel Rapid Storage Technology 12.0.1.1019

## Component Notes

Tested systems can be used with Shin-G ATX case,  
PC Power and Cooling 1200W power supply

## General Notes

OMP\_NUM\_THREADS set to number of processors cores  
KMP\_AFFINITY set to granularity=fine,scatter  
Binaries compiled on a system with 1x Intel Core i7-860 CPU  
+ 8GB memory using Windows 7 Enterprise 64-bit

## Base Compiler Invocation

C benchmarks:  
icl -Qvc10 -Qstd=c99

C++ benchmarks:  
icl -Qvc10

## 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  
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

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECint2006 = 52.4

Intel DH67BL motherboard (Intel Core i7-2700K)

SPECint\_base2006 = 49.9

CPU2006 license: 13

Test date: May-2014

Test sponsor: Intel Corporation

Hardware Availability: Dec-2012

Tested by: Intel Corporation

Software Availability: Oct-2013

## Base Portability Flags (Continued)

483.xalancbmk: -DSPEC\_CPU\_P64 -Qoption,cpp,--no\_wchar\_t\_keyword

## Base Optimization Flags

C benchmarks:

-QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel -Qauto-ilp32 /F512000000

C++ benchmarks:

-QxAVX -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 -Qvc10 -Qstd=c99

C++ benchmarks:

icl -Qvc10

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

400.perlbench: -QxAVX(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch -Qauto-ilp32 /F512000000 shlw64M.lib -link /FORCE:MULTIPLE

401.bz2: -QxAVX(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias -Qauto-ilp32 /F512000000

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECint2006 = 52.4

Intel DH67BL motherboard (Intel Core i7-2700K)

SPECint\_base2006 = 49.9

CPU2006 license: 13

Test date: May-2014

Test sponsor: Intel Corporation

Hardware Availability: Dec-2012

Tested by: Intel Corporation

Software Availability: Oct-2013

## Peak Optimization Flags (Continued)

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

429.mcf: basepeak = yes

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

456.hmmer: basepeak = yes

458.sjeng: basepeak = yes

462.libquantum: basepeak = yes

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

C++ benchmarks:

471.omnetpp: -QxAVX(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

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic14.0-official-windows.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic14.0-official-windows.xml>



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECint2006 = 52.4

Intel DH67BL motherboard (Intel Core i7-2700K)

SPECint\_base2006 = 49.9

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: May-2014

Hardware Availability: Dec-2012

Software Availability: Oct-2013

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 v1.2.  
Report generated on Tue Sep 9 10:45:01 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 18 June 2014.