



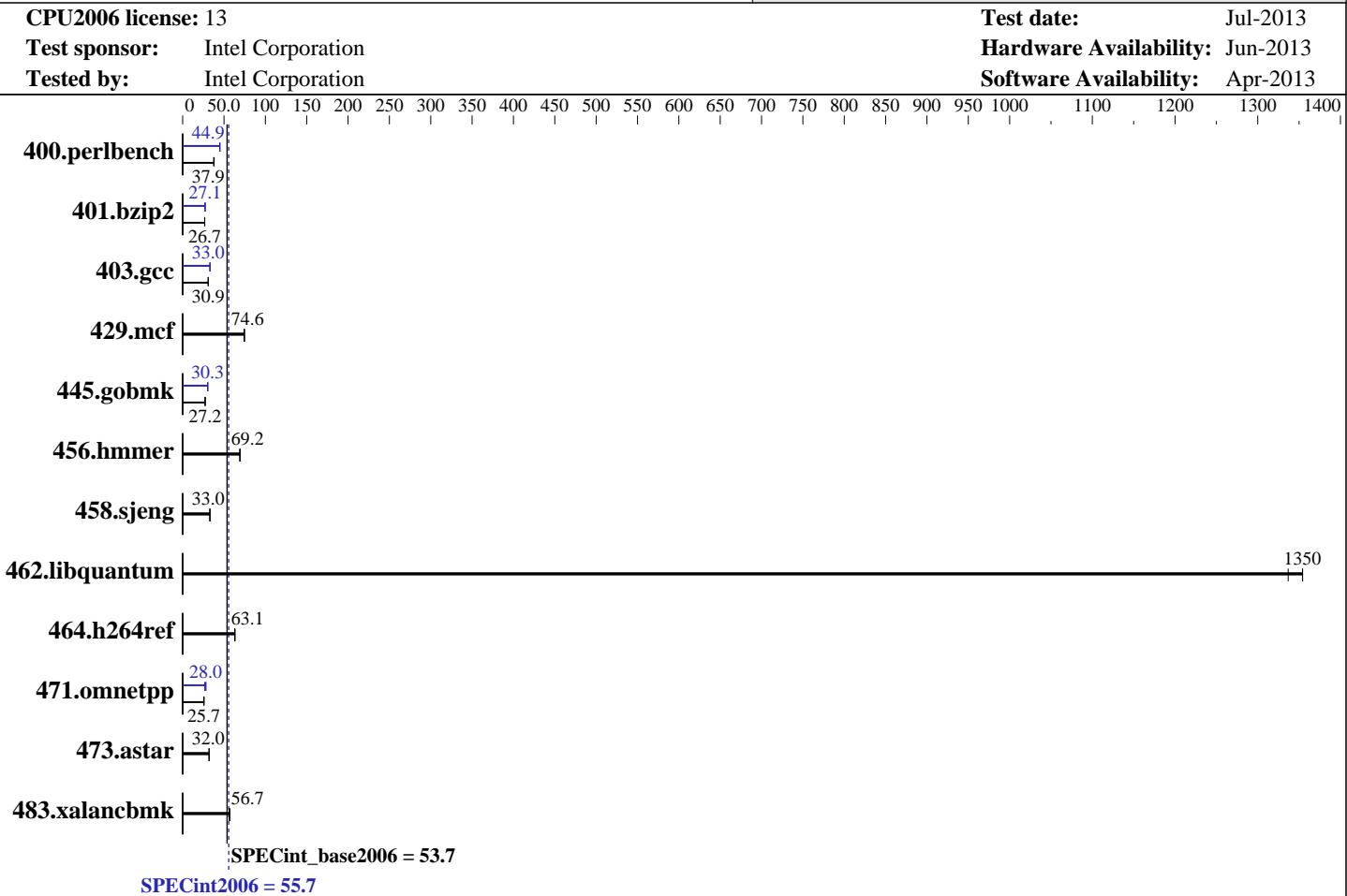
# SPEC® CINT2006 Result

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## Intel Corporation

Intel DH87MC motherboard (Intel Core i5-4570)

**SPECint®2006 = 55.7**



<b>Hardware</b>		<b>Software</b>
CPU Name:	Intel Core i5-4570	Operating System: Microsoft Windows 8 Pro
CPU Characteristics:	Intel Turbo Boost Technology up to 3.6 GHz	6.2.9200 N/A Build 9200
CPU MHz:	3200	C/C++: Version 13.1.1.171 of Intel C++ Studio XE for Windows;
FPU:	Integrated	Libraries: Version 16.00.30319.01 of Microsoft Visual Studio 2010 Professional SP1
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip	Yes
CPU(s) orderable:	1 chip	File System: NTFS
Primary Cache:	32 KB I + 32 KB D on chip per core	System State: Default
Secondary Cache:	256 KB I+D on chip per core	Base Pointers: 32/64-bit
L3 Cache:	6 MB I+D on chip per chip	Peak Pointers: 32/64-bit
Other Cache:	None	Other Software: SmartHeap Library Version 10.0 from <a href="http://www.microquill.com/">http://www.microquill.com/</a>
Memory:	8 GB (2 x 4 GB 2Rx8 PC3-12800U-9)	
Disk Subsystem:	1 TB Seagate SATA, 7200 RPM	
Other Hardware:	None	



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	261	37.5	256	38.1	<b>258</b>	<b>37.9</b>	217	45.1	218	44.9	<b>218</b>	<b>44.9</b>
401.bzip2	362	26.7	<b>362</b>	<b>26.7</b>	363	26.6	<b>356</b>	<b>27.1</b>	355	27.2	356	27.1
403.gcc	<b>260</b>	<b>30.9</b>	260	31.0	260	30.9	<b>244</b>	<b>33.0</b>	244	33.0	243	33.1
429.mcf	<b>122</b>	<b>74.6</b>	122	74.6	122	74.6	<b>122</b>	<b>74.6</b>	122	74.6	122	74.6
445.gobmk	385	27.2	<b>385</b>	<b>27.2</b>	385	27.2	<b>346</b>	<b>30.3</b>	347	30.3	346	30.3
456.hmmer	134	69.4	135	69.2	<b>135</b>	<b>69.2</b>	134	69.4	135	69.2	<b>135</b>	<b>69.2</b>
458.sjeng	<b>367</b>	<b>33.0</b>	367	33.0	368	32.9	<b>367</b>	<b>33.0</b>	367	33.0	368	32.9
462.libquantum	15.3	1350	15.5	1340	<b>15.3</b>	<b>1350</b>	15.3	1350	15.5	1340	<b>15.3</b>	<b>1350</b>
464.h264ref	350	63.2	<b>351</b>	<b>63.1</b>	351	63.0	350	63.2	<b>351</b>	<b>63.1</b>	351	63.0
471.omnetpp	<b>243</b>	<b>25.7</b>	243	25.7	243	25.7	<b>223</b>	<b>28.0</b>	223	28.1	235	26.7
473.astar	<b>219</b>	<b>32.0</b>	219	32.1	220	31.9	<b>219</b>	<b>32.0</b>	219	32.1	220	31.9
483.xalancbmk	<b>122</b>	<b>56.7</b>	122	56.6	121	56.9	<b>122</b>	<b>56.7</b>	122	56.6	121	56.9

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 13.1 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:\Users\PECA_W~1\Desktop\CPU200~1.APR/Docs/sysinfo
$Rev: 6775 $ $Date::: 2011-08-16 #\$ \8787f7622badcf24e01c368b1db4377c
running on HSW_9200 Sat Jul 13 03:14:36 2013
```

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 Pro
OS Version   : 6.2.9200 N/A Build 9200
System Manufacturer: INTEL_
System Model  : DH87MC_
Processor(s)  : 1 Processor(s) Installed.
[01]: Intel64 Family 6 Model 60 Stepping 3 GenuineIntel ~3201 Mhz
BIOS Version  : Intel Corp. MCH8710H.86A.0043.2013.0412.2225, 4/12/2013
Total Physical Memory: 7,864 MB
```

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

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## Platform Notes (Continued)

```
L2CacheSize      : 1024
L3CacheSize      : 6144
MaxClockSpeed   : 3201
Name             : Intel(R) Core(TM) i5-4570 CPU @ 3.20GHz
NumberOfCores    : 4
NumberOfLogicalProcessors: 4
```

(End of data from sysinfo program)

## 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.hmmr: -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
483.xalancbmk: -DSPEC_CPU_P64 -Qoption_cpp,--no_wchar_t_keyword
```



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## Base Optimization Flags

C benchmarks:

```
-QxCORE-AVX2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel  
-Qauto-ilp32 /F512000000
```

C++ benchmarks:

```
-QxCORE-AVX2 -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: -QxCORE-AVX2(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.bzip2: -QxCORE-AVX2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias  
-Qauto-ilp32 /F512000000
```

```
403.gcc: -QxCORE-AVX2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qauto-ilp32 /F512000000
```

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## Peak Optimization Flags (Continued)

429.mcf: basepeak = yes

445.gobmk: -QxCORE-AVX2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O2 -Qprec-div- -Qansi-alias -Qauto-ilp32  
/F512000000

456.hmmr: basepeak = yes

458.sjeng: basepeak = yes

462.libquantum: basepeak = yes

464.h264ref: basepeak = yes

C++ benchmarks:

471.omnetpp: -QxCORE-AVX2(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-ic13.1-official-windows.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic13.1-official-windows.xml>



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

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