



# SPEC<sup>®</sup> CINT2006 Result

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**Hewlett-Packard Company**

(Test Sponsor: Intel Corporation)

HP ENVY 15 Notebook PC 15t-j100 (Intel Core i5-4300M)

**SPECint<sup>®</sup>2006 = 48.6**

**SPECint\_base2006 = 47.1**

CPU2006 license: 13

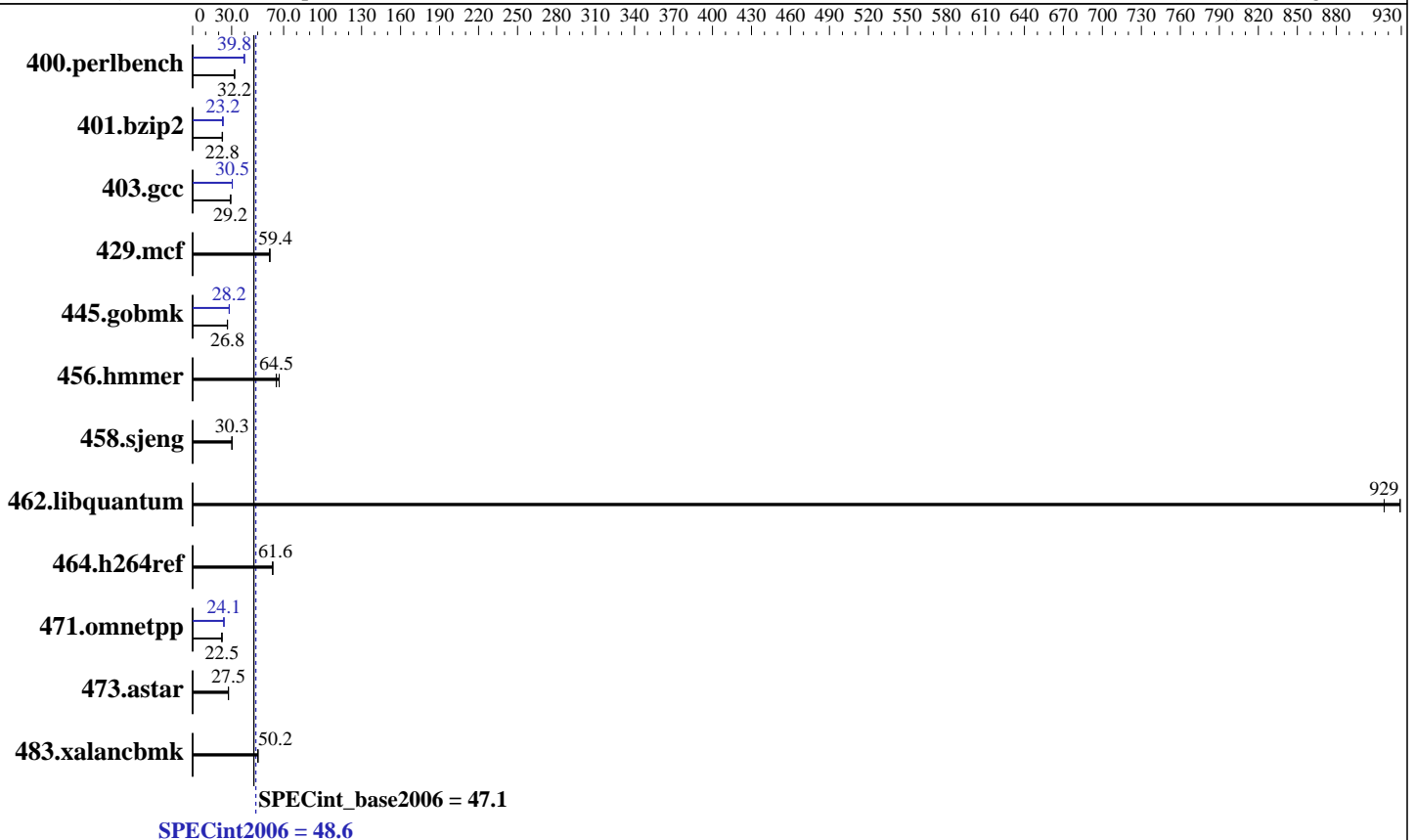
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Nov-2015

Hardware Availability: May-2014

Software Availability: Aug-2015



## Hardware

CPU Name: Intel Core i5-4300M  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.30 GHz  
 CPU MHz: 2600  
 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: 3 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 8 GB (2 x 4 GB 2Rx4 PC3-12800U-11)  
 Disk Subsystem: 1 TB HDD, 5400 RPM  
 Other Hardware: None

## Software

Operating System: Microsoft Windows 10 Pro  
 10.0.10240 N/A Build 10240  
 Compiler: C/C++: Version 16.0.0.110 of Intel C++ Studio XE for Windows;  
 Libraries: Version 18.00.30723 of Microsoft Visual Studio 2013  
 Auto Parallel: Yes  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32/64-bit  
 Peak Pointers: 32/64-bit  
 Other Software: SmartHeap Library Version 11.0 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	<b>303</b>	<b>32.2</b>	302	32.4	304	32.1	246	39.7	<b>246</b>	<b>39.8</b>	246	39.8
401.bzip2	420	23.0	<b>423</b>	<b>22.8</b>	423	22.8	<b>416</b>	<b>23.2</b>	419	23.0	411	23.5
403.gcc	275	29.3	<b>276</b>	<b>29.2</b>	276	29.2	264	30.5	<b>264</b>	<b>30.5</b>	264	30.5
429.mcf	<b>154</b>	<b>59.4</b>	154	59.2	153	59.5	<b>154</b>	<b>59.4</b>	154	59.2	153	59.5
445.gobmk	393	26.7	392	26.8	<b>392</b>	<b>26.8</b>	373	28.1	372	28.2	<b>373</b>	<b>28.2</b>
456.hammer	<b>145</b>	<b>64.5</b>	140	66.6	145	64.3	<b>145</b>	<b>64.5</b>	140	66.6	145	64.3
458.sjeng	<b>400</b>	<b>30.3</b>	400	30.3	400	30.2	<b>400</b>	<b>30.3</b>	400	30.3	400	30.2
462.libquantum	22.3	929	<b>22.3</b>	<b>929</b>	22.6	917	22.3	929	<b>22.3</b>	<b>929</b>	22.6	917
464.h264ref	<b>359</b>	<b>61.6</b>	360	61.5	359	61.7	<b>359</b>	<b>61.6</b>	360	61.5	359	61.7
471.omnetpp	<b>278</b>	<b>22.5</b>	275	22.7	279	22.4	260	24.1	261	24.0	<b>260</b>	<b>24.1</b>
473.astar	256	27.5	<b>255</b>	<b>27.5</b>	254	27.6	256	27.5	<b>255</b>	<b>27.5</b>	254	27.6
483.xalancbmk	<b>138</b>	<b>50.2</b>	138	50.2	137	50.3	<b>138</b>	<b>50.2</b>	138	50.2	137	50.3

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 16.0 was set up to generate 64-bit binaries with the command:  
"psxevars.bat intel64" (shortcut provided in the Intel(r) Parallel Studio XE 2016 program folder)

## Platform Notes

Sysinfo program C:\SPEC16.0\Docs\sysinfo  
\$Rev: 6775 \$ \$Date:: 2011-08-16 # \$ \8787f7622badcf24e01c368b1db4377c  
running on Clt9CB654C10CA6 Wed Nov 11 18:47:47 2015

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 10 Pro
OS Version    : 10.0.10240 N/A Build 10240
System Manufacturer: Hewlett-Packard
System Model   : HP ENVY 15 Notebook PC
Processor(s)  : 1 Processor(s) Installed.
               [01]: Intel64 Family 6 Model 60 Stepping 3 GenuineIntel ~1200 Mhz
BIOS Version  : Insyde F.35, 10/3/2013
Total Physical Memory: 8,128 MB
```

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

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## Platform Notes (Continued)

L2CacheSize : 256  
L3CacheSize : 3072  
MaxClockSpeed : 2601  
Name : Intel(R) Core(TM) i5-4300M CPU @ 2.60GHz  
NumberOfCores : 2  
NumberOfLogicalProcessors: 4

(End of data from sysinfo program)

## 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 Xeon E5-2699 v3 CPU  
+ 64GB memory using Windows 8.1 Enterprise 64-bit

## Base Compiler Invocation

C benchmarks:

icl -Qvc12 -Qstd=c99

C++ benchmarks:

icl -Qvc12

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WIN64\_X64  
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  
471.omnetpp: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WIN64  
473.astar: -DSPEC\_CPU\_P64  
483.xalancbmk: -DSPEC\_CPU\_P64 -Qoption,cpp,--no\_wchar\_t\_keyword -DWIN64

## Base Optimization Flags

C benchmarks:

-QxCORE-AVX2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel  
-Qauto-ilp32 /F64000000

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## Base Optimization Flags (Continued)

C++ benchmarks:

-QxCORE-AVX2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features  
-Qauto-ilp32 /F64000000 shlw64M.lib -link /FORCE:MULTIPLE

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks:

icl -Qvc12 -Qstd=c99

C++ benchmarks:

icl -Qvc12

## 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 /F64000000 shlw64M.lib  
/F256000000 -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 /F64000000

403.gcc: -QxCORE-AVX2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qauto-ilp32 /F64000000

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  
/F64000000

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## Peak Optimization Flags (Continued)

456.hmmer: 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 /F64000000  
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-ic16.0-official-windows.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic16.0-official-windows.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).

Tested with SPEC CPU2006 v1.2.

Report generated on Tue Dec 15 16:46:43 2015 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 15 December 2015.