



SPEC® CINT2006 Result

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Hewlett-Packard Company

(Test Sponsor: Intel Corporation)

HP ENVY 15 Notebook PC 15t-j100 (Intel Core i5-4340M)

SPECint®2006 = 52.3

SPECint_base2006 = 50.6

CPU2006 license: 13

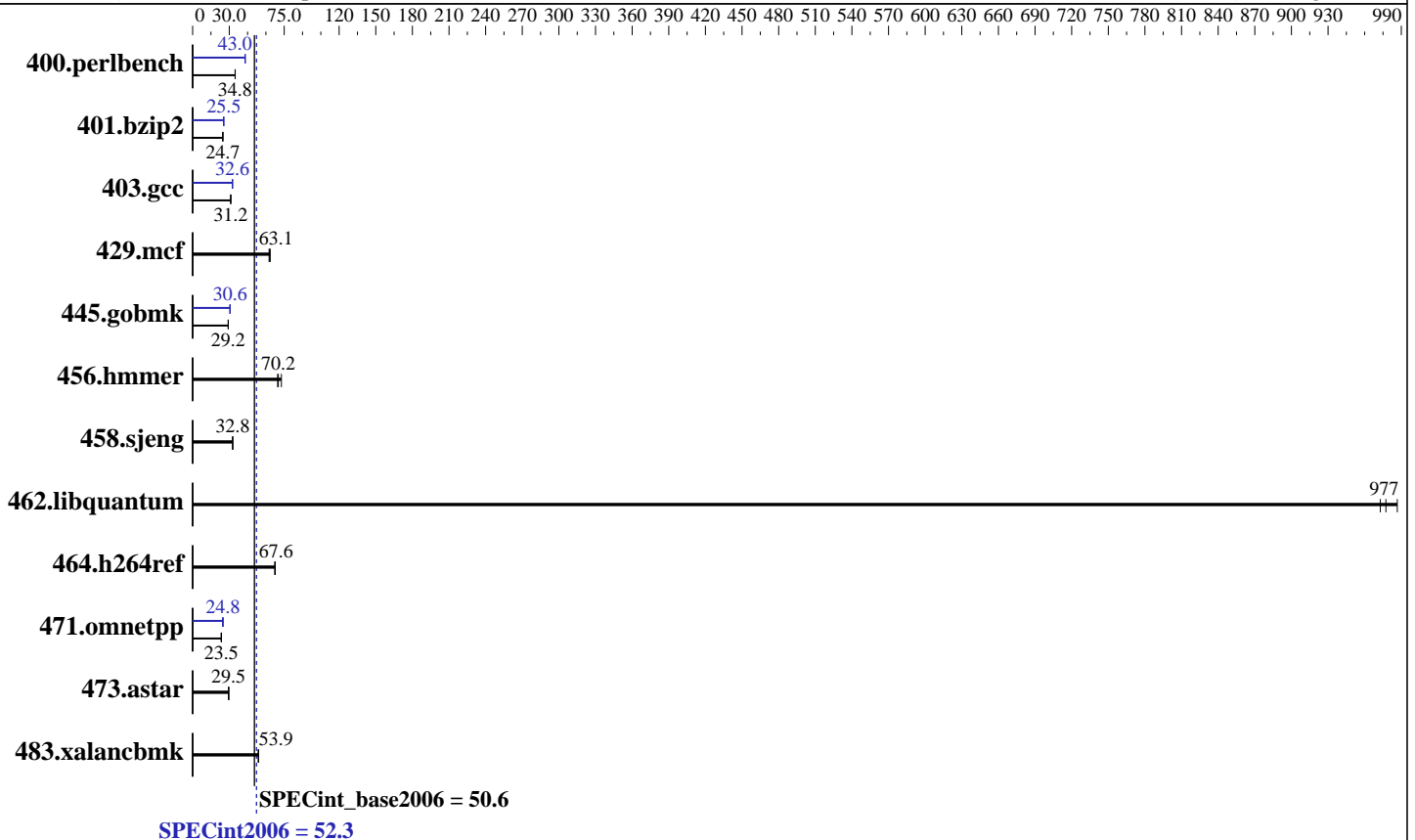
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Nov-2015

Hardware Availability: May-2014

Software Availability: Aug-2015



Hardware

CPU Name: Intel Core i5-4340M
 CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz
 CPU MHz: 2900
 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	280	34.9	<u>281</u>	<u>34.8</u>	281	34.8	227	43.1	<u>227</u>	<u>43.0</u>	228	42.9
401.bzip2	<u>390</u>	<u>24.7</u>	391	24.7	389	24.8	380	25.4	379	25.5	<u>379</u>	<u>25.5</u>
403.gcc	258	31.2	258	31.2	<u>258</u>	<u>31.2</u>	247	32.6	246	32.7	<u>247</u>	<u>32.6</u>
429.mcf	146	62.6	<u>145</u>	<u>63.1</u>	144	63.5	146	62.6	<u>145</u>	<u>63.1</u>	144	63.5
445.gobmk	360	29.1	360	29.2	<u>360</u>	<u>29.2</u>	<u>342</u>	<u>30.6</u>	342	30.7	342	30.6
456.hammer	134	69.6	128	72.7	<u>133</u>	<u>70.2</u>	134	69.6	128	72.7	<u>133</u>	<u>70.2</u>
458.sjeng	<u>369</u>	<u>32.8</u>	369	32.8	368	32.8	<u>369</u>	<u>32.8</u>	369	32.8	368	32.8
462.libquantum	21.0	987	21.3	973	<u>21.2</u>	<u>977</u>	21.0	987	21.3	973	<u>21.2</u>	<u>977</u>
464.h264ref	327	67.7	330	67.2	<u>328</u>	<u>67.6</u>	327	67.7	330	67.2	<u>328</u>	<u>67.6</u>
471.omnetpp	267	23.4	265	23.6	<u>266</u>	<u>23.5</u>	250	25.0	<u>252</u>	<u>24.8</u>	255	24.5
473.astar	<u>238</u>	<u>29.5</u>	238	29.4	237	29.6	<u>238</u>	<u>29.5</u>	238	29.4	237	29.6
483.xalancbmk	<u>128</u>	<u>53.9</u>	128	53.9	128	53.8	<u>128</u>	<u>53.9</u>	128	53.9	128	53.8

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 CltA01D48C0E889 Wed Nov 11 17:48:55 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 ~800 Mhz
BIOS Version  : Insyde F.36, 10/24/2013
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 : 2901
Name : Intel(R) Core(TM) i5-4340M CPU @ 2.90GHz
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 other inquiries, please contact webmaster@spec.org.

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