



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®_rate2006 = 109

SPECint_rate_base2006 = 104

CPU2006 license: 13

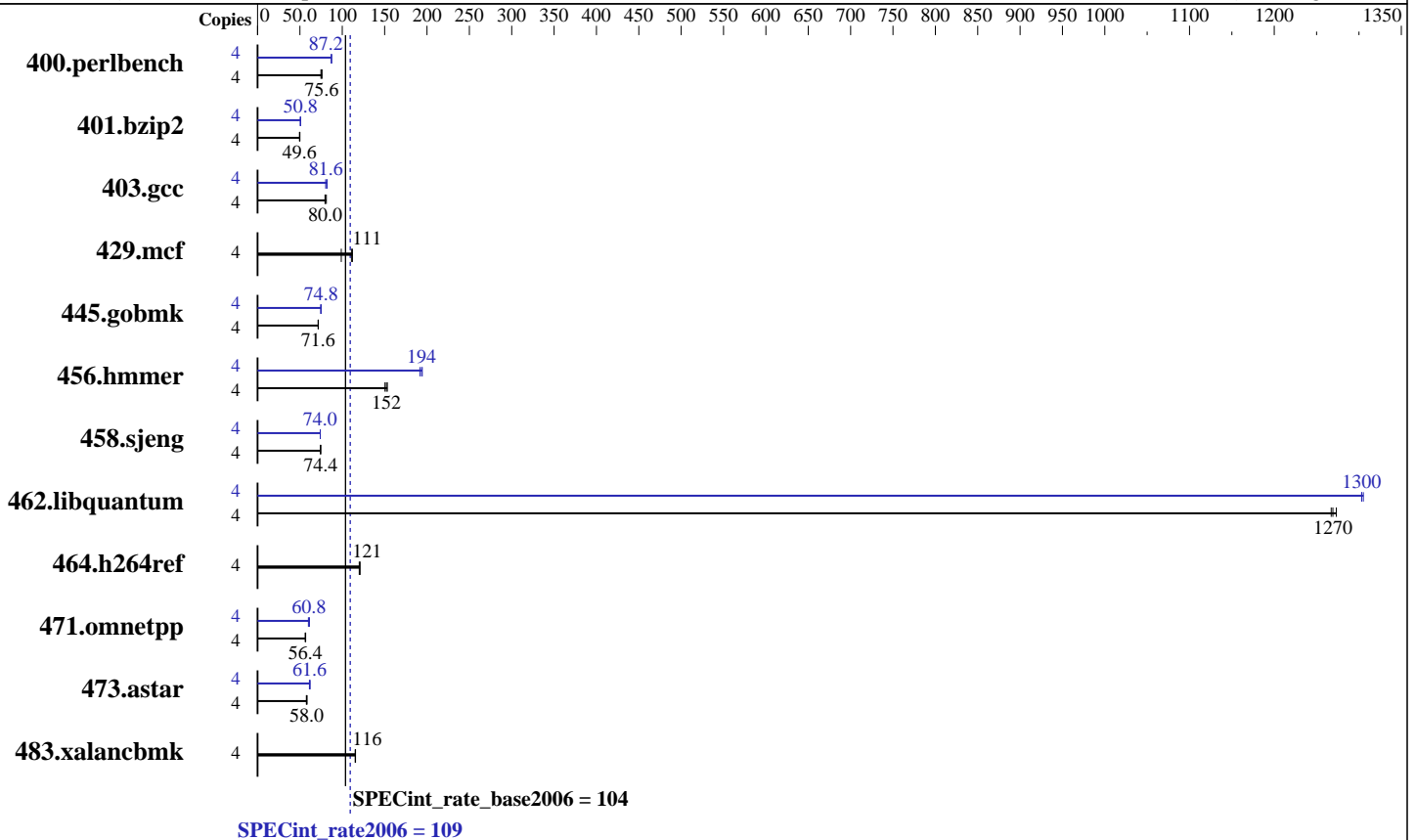
Test sponsor: Intel Corporation

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: No
 File System: NTFS
 System State: Default
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: SmartHeap Library Version 11.0 from <http://www.microquill.com/>



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	514	76.0	<u>516</u>	<u>75.6</u>	522	74.8	4	449	87.2	448	87.2	<u>448</u>	<u>87.2</u>
401.bzip2	4	780	49.6	<u>779</u>	<u>49.6</u>	773	50.0	4	765	50.4	<u>761</u>	<u>50.8</u>	759	50.8
403.gcc	4	404	79.6	397	81.2	<u>402</u>	<u>80.0</u>	4	400	80.4	<u>394</u>	<u>81.6</u>	393	82.0
429.mcf	4	326	112	<u>329</u>	<u>111</u>	370	98.8	4	326	112	<u>329</u>	<u>111</u>	370	98.8
445.gobmk	4	<u>587</u>	<u>71.6</u>	587	71.6	587	71.6	4	<u>561</u>	<u>74.8</u>	562	74.8	560	74.8
456.hammer	4	244	153	248	150	<u>246</u>	<u>152</u>	4	192	194	<u>193</u>	<u>194</u>	195	192
458.sjeng	4	651	74.4	<u>651</u>	<u>74.4</u>	649	74.4	4	653	74.0	<u>653</u>	<u>74.0</u>	653	74.0
462.libquantum	4	65.4	1270	<u>65.3</u>	<u>1270</u>	65.1	1270	4	<u>63.6</u>	<u>1300</u>	63.5	1310	63.6	1300
464.h264ref	4	737	120	732	121	<u>732</u>	<u>121</u>	4	737	120	732	121	<u>732</u>	<u>121</u>
471.omnetpp	4	445	56.4	<u>444</u>	<u>56.4</u>	440	56.8	4	410	61.2	415	60.0	<u>410</u>	<u>60.8</u>
473.astar	4	487	57.6	<u>484</u>	<u>58.0</u>	480	58.4	4	<u>457</u>	<u>61.6</u>	458	61.2	452	62.0
483.xalancbmk	4	239	116	<u>239</u>	<u>116</u>	240	115	4	239	116	<u>239</u>	<u>116</u>	240	115

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 32-bit binaries with the command:
"ipsxe-comp-vars.bat ia32 vs2010" (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 Thu Nov 12 04:44:33 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 ~2901 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

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

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Base Optimization Flags

C benchmarks:

-QxCORE-AVX2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F256000000

C++ benchmarks:

-QxCORE-AVX2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
/F256000000 shlw32M.lib -link /FORCE:MULTIPLE

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca



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Peak Compiler Invocation

C benchmarks (except as noted below):

icl -Qvc12 -Qstd=c99

C++ benchmarks (except as noted below):

icl -Qvc12

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
 456.hmmmer: -DSPEC_CPU_P64
 458.sjeng: -DSPEC_CPU_P64
 462.libquantum: -DSPEC_CPU_P64
 464.h264ref: -DWIN32
 473.astar: -DSPEC_CPU_P64
 483.xalancbmk: -Qoption, cpp, --no_wchar_t_keyword

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
 /F256000000 shlw32M.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
 /F256000000

403.gcc: -QxCORE-AVX2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F256000000

429.mcf: basepeak = yes

445.gobmk: -QxCORE-AVX2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
 -Qipo -O2 -Qprec-div- -Qansi-alias /F256000000

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 /F256000000 shlw32M.lib
 -link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

483.xalanbmk: 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.

Tested with SPEC CPU2006 v1.2.
Report generated on Tue Dec 15 16:46:41 2015 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 15 December 2015.