SPEC® CINT2006 Result

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Hewlett-Packard Company

(Test Sponsor: Intel Corporation)

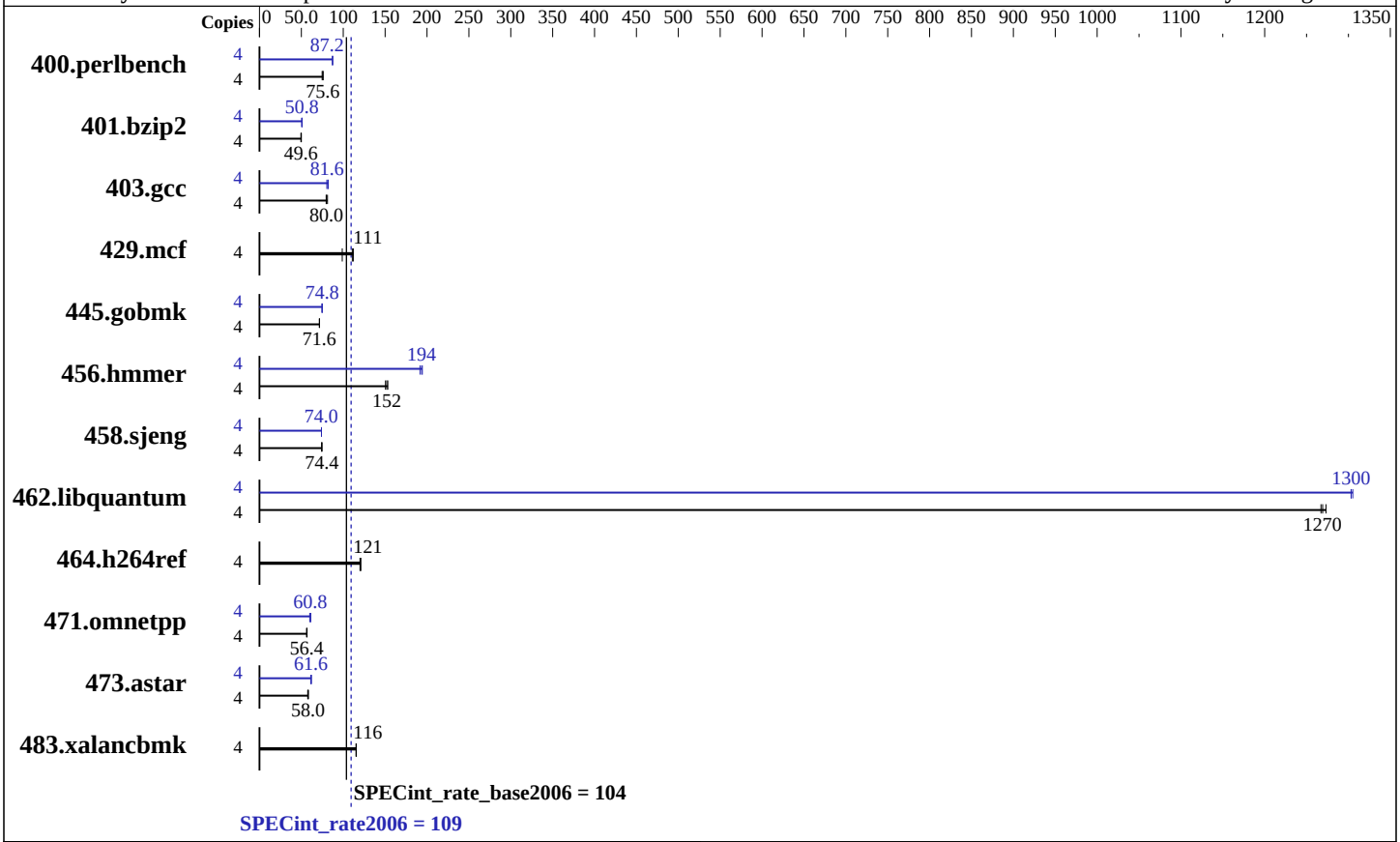
HP ENVY 15 Notebook PC 15t-j100 (Intel Core i5-4340M)

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

Continued on next page

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`

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.hmmer: -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

Continued on next page

Peak Optimization Flags (Continued)

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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