SPEC® CINT2006 Result
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ASUSTeK Computer Inc.
(Test Sponsor: Intel Corporation)

ASUS Z170MPLUS motherboard (Intel Core i7-6700)

SPECint®_rate2006 =   235

SPECint_rate_base2006 =   226

CPU2006 license: 13

Test sponsor:	Intel Corporation	**Test date:**	Oct-2015
Tested by:	Intel Corporation	**Hardware Availability:**	Sep-2015
		Software Availability:	Aug-2015

SPECint_rate_base2006 = 226

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Hardware

CPU Name:	Intel Core i7-6700
CPU Characteristics:	Intel Turbo Boost Technology up to 4.00 GHz
CPU MHz:	3400
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 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:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	8 GB (2 x 4 GB 2Rx4 PC4-2133P-U)
Disk Subsystem:	1 TB Seagate SATA HDD, 7200 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:	32-bit
Peak Pointers:	32/64-bit
Other Software:	SmartHeap Library Version 11.0 from http://www.microquill.com/

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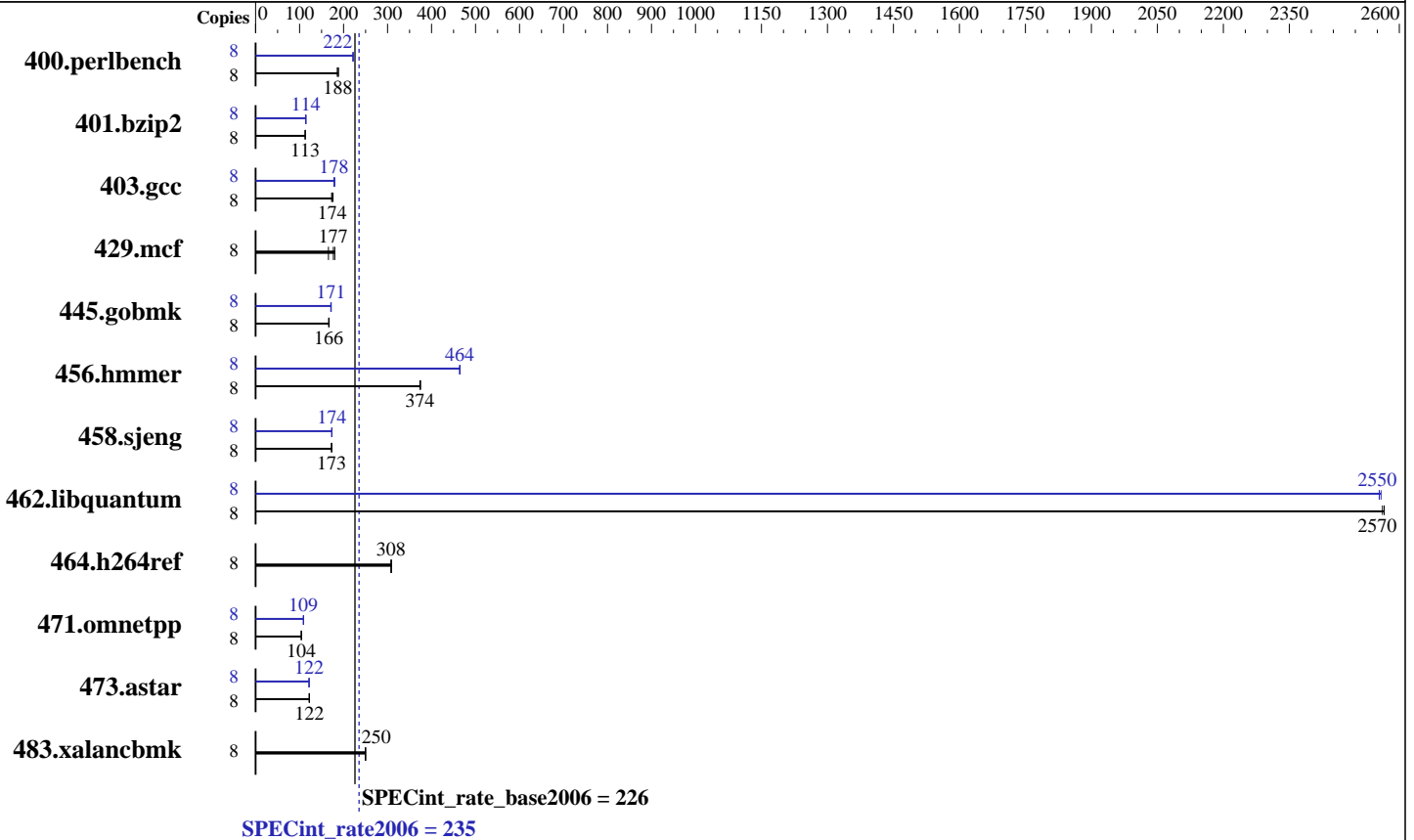
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Results Table

Benchmark	Copies	Base Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Peak Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	420	186	415	188	**415**	**188**	8	**353**	**222**	353	222	352	222
401.bzip2	8	687	113	682	113	**684**	**113**	8	678	114	**676**	**114**	674	114
403.gcc	8	**369**	**174**	372	173	366	176	8	**361**	**178**	362	178	357	180
429.mcf	8	**413**	**177**	440	166	406	180	8	**413**	**177**	440	166	406	180
445.gobmk	8	**503**	**166**	503	167	504	166	8	**490**	**171**	489	172	490	171
456.hmmer	8	200	374	199	375	**200**	**374**	8	161	465	**161**	**464**	161	464
458.sjeng	8	561	173	**561**	**173**	560	173	8	559	174	**559**	**174**	559	173
462.libquantum	8	64.7	2560	64.6	2570	**64.6**	**2570**	8	64.8	2560	**64.9**	**2550**	64.9	2550
464.h264ref	8	**575**	**308**	575	308	574	309	8	**575**	**308**	575	308	574	309
471.omnetpp	8	482	104	**482**	**104**	483	104	8	461	109	**461**	**109**	461	109
473.astar	8	**460**	**122**	460	122	461	122	8	463	122	463	122	**463**	**122**
483.xalancbmk	8	221	250	221	250	**221**	**250**	8	221	250	221	250	**221**	**250**

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 DESKTOP-C8BQEO8 Thu Oct 15 22:24:19 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: System manufacturer
    System Model   : System Product Name
    Processor(s)   : 1 Processor(s) Installed.
        [01]: Intel64 Family 6 Model 94 Stepping 3 GenuineIntel ~3401 Mhz
    BIOS Version   : American Megatrends Inc. 0408, 8/28/2015
    Total Physical Memory: 8,084 MB

    Trying 'wmic cpu get /value'
    DeviceID   : CPU0

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Platform Notes (Continued)

```
    L2CacheSize     : 1024
    L3CacheSize     : 8192
    MaxClockSpeed   : 3401
    Name            : Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz
    NumberOfCores   : 4
    NumberOfLogicalProcessors: 8

    (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

```
    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
```

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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
```

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Peak Optimization Flags (Continued)

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

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

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 Nov 17 19:18:11 2015 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 17 November 2015.