



# SPEC® CINT2006 Result

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ASUSTeK Computer Inc.  
(Test Sponsor: Intel Corporation)

SPECint®\_rate2006 = 246

ASUS Z97M-PLUS Motherboard (Intel Core i7-5775C)

SPECint\_rate\_base2006 = 231

CPU2006 license: 13

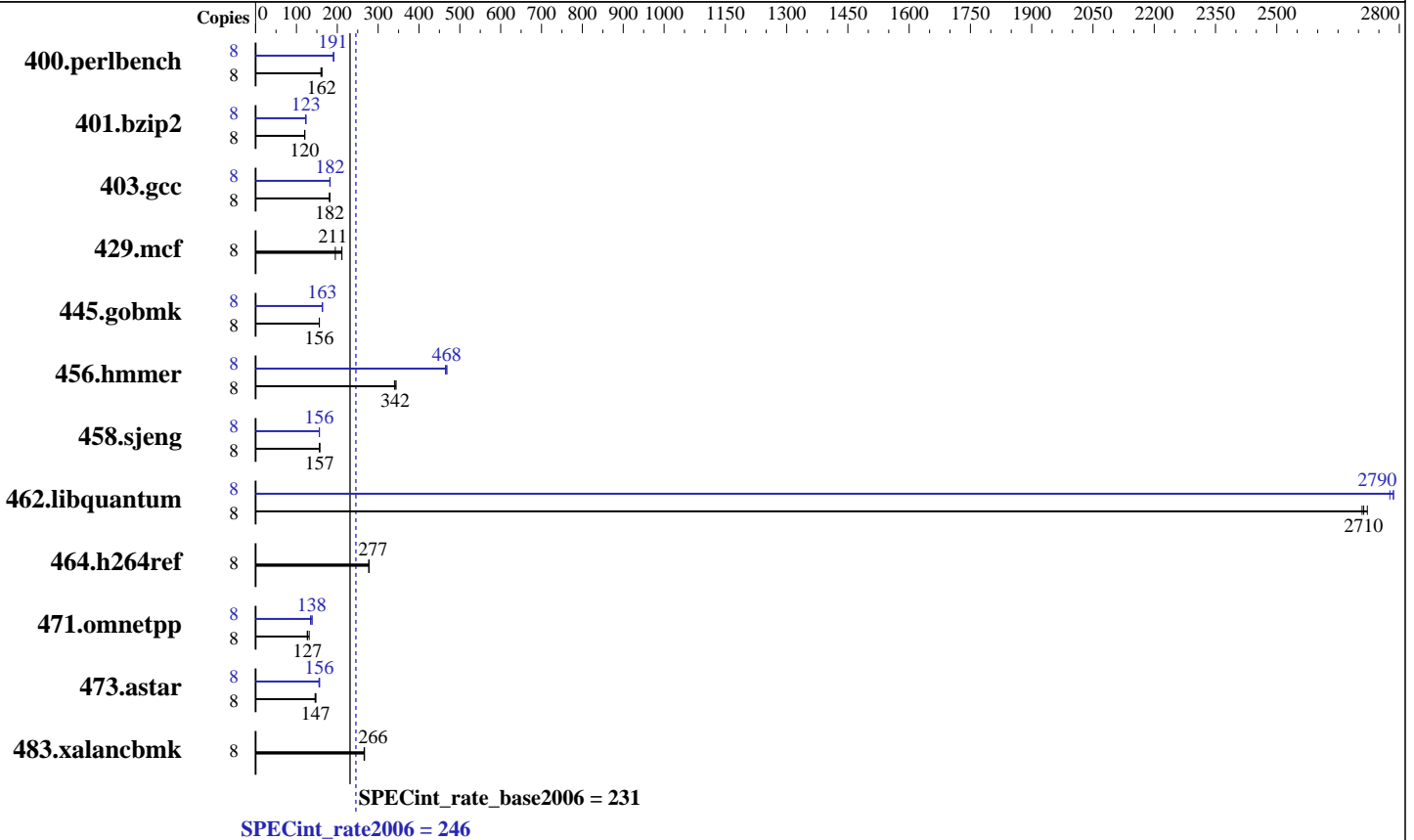
Test date: Oct-2015

Test sponsor: Intel Corporation

Hardware Availability: Jun-2015

Tested by: Intel Corporation

Software Availability: Aug-2015



## Hardware

CPU Name: Intel Core i7-5775C  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.70 GHz  
 CPU MHz: 3300  
 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: 6 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 8 GB (2 x 4 GB 2Rx4 PC3-14900U-10, running at 1600MHz)  
 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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## Results Table

| Benchmark      | Base   |             |             |            |            |            |            | Peak   |            |            |            |            |             |             |
|----------------|--------|-------------|-------------|------------|------------|------------|------------|--------|------------|------------|------------|------------|-------------|-------------|
|                | Copies | Seconds     | Ratio       | Seconds    | Ratio      | Seconds    | Ratio      | Copies | Seconds    | Ratio      | Seconds    | Ratio      | Seconds     | Ratio       |
| 400.perlbench  | 8      | 487         | 160         | <b>483</b> | <b>162</b> | 482        | 162        | 8      | <b>409</b> | <b>191</b> | 409        | 191        | 410         | 190         |
| 401.bzip2      | 8      | 642         | 120         | 639        | 121        | <b>641</b> | <b>120</b> | 8      | 629        | 122        | <b>626</b> | <b>123</b> | 626         | 123         |
| 403.gcc        | 8      | 355         | 182         | <b>355</b> | <b>182</b> | 356        | 181        | 8      | 352        | 182        | <b>353</b> | <b>182</b> | 355         | 182         |
| 429.mcf        | 8      | 345         | 211         | 374        | 195        | <b>345</b> | <b>211</b> | 8      | 345        | 211        | 374        | 195        | <b>345</b>  | <b>211</b>  |
| 445.gobmk      | 8      | <b>538</b>  | <b>156</b>  | 539        | 156        | 537        | 156        | 8      | <b>513</b> | <b>163</b> | 513        | 164        | 513         | 163         |
| 456.hammer     | 8      | 217         | 344         | <b>218</b> | <b>342</b> | 219        | 340        | 8      | 160        | 468        | 161        | 465        | <b>160</b>  | <b>468</b>  |
| 458.sjeng      | 8      | 617         | 157         | 617        | 157        | <b>617</b> | <b>157</b> | 8      | <b>620</b> | <b>156</b> | 620        | 156        | 620         | 156         |
| 462.libquantum | 8      | <b>61.1</b> | <b>2710</b> | 60.9       | 2720       | 61.2       | 2710       | 8      | 59.7       | 2780       | 59.5       | 2790       | <b>59.5</b> | <b>2790</b> |
| 464.h264ref    | 8      | 639         | 278         | 638        | 278        | <b>638</b> | <b>277</b> | 8      | 639        | 278        | 638        | 278        | <b>638</b>  | <b>277</b>  |
| 471.omnetpp    | 8      | <b>393</b>  | <b>127</b>  | 395        | 126        | 381        | 131        | 8      | 361        | 138        | <b>363</b> | <b>138</b> | 373         | 134         |
| 473.astar      | 8      | 382         | 147         | 385        | 146        | <b>383</b> | <b>147</b> | 8      | 358        | 157        | <b>361</b> | <b>156</b> | 361         | 155         |
| 483.xalancbmk  | 8      | 208         | 266         | 207        | 266        | <b>208</b> | <b>266</b> | 8      | 208        | 266        | 207        | 266        | <b>208</b>  | <b>266</b>  |

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-K1NMJC0 Tue Oct 13 23:09:33 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: ASUS
System Model   : All Series
Processor(s)  : 1 Processor(s) Installed.
               [01]: Intel64 Family 6 Model 71 Stepping 1 GenuineIntel ~3300 Mhz
BIOS Version  : American Megatrends Inc. 2802, 5/19/2015
Total Physical Memory: 8,063 MB
```

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

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## Platform Notes (Continued)

L2CacheSize : 1024  
L3CacheSize : 6144  
MaxClockSpeed : 3301  
Name : Intel(R) Core(TM) i7-5775C CPU @ 3.30GHz  
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.bz2: -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.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](mailto:webmaster@spec.org).

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