



SPEC® CINT2006 Result

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Intel Corporation

Gigabyte X99-SOC Force-CF Motherboard (Intel Core i7-5960X)

SPECint®2006 = 60.6

SPECint_base2006 = 58.7

CPU2006 license: 13

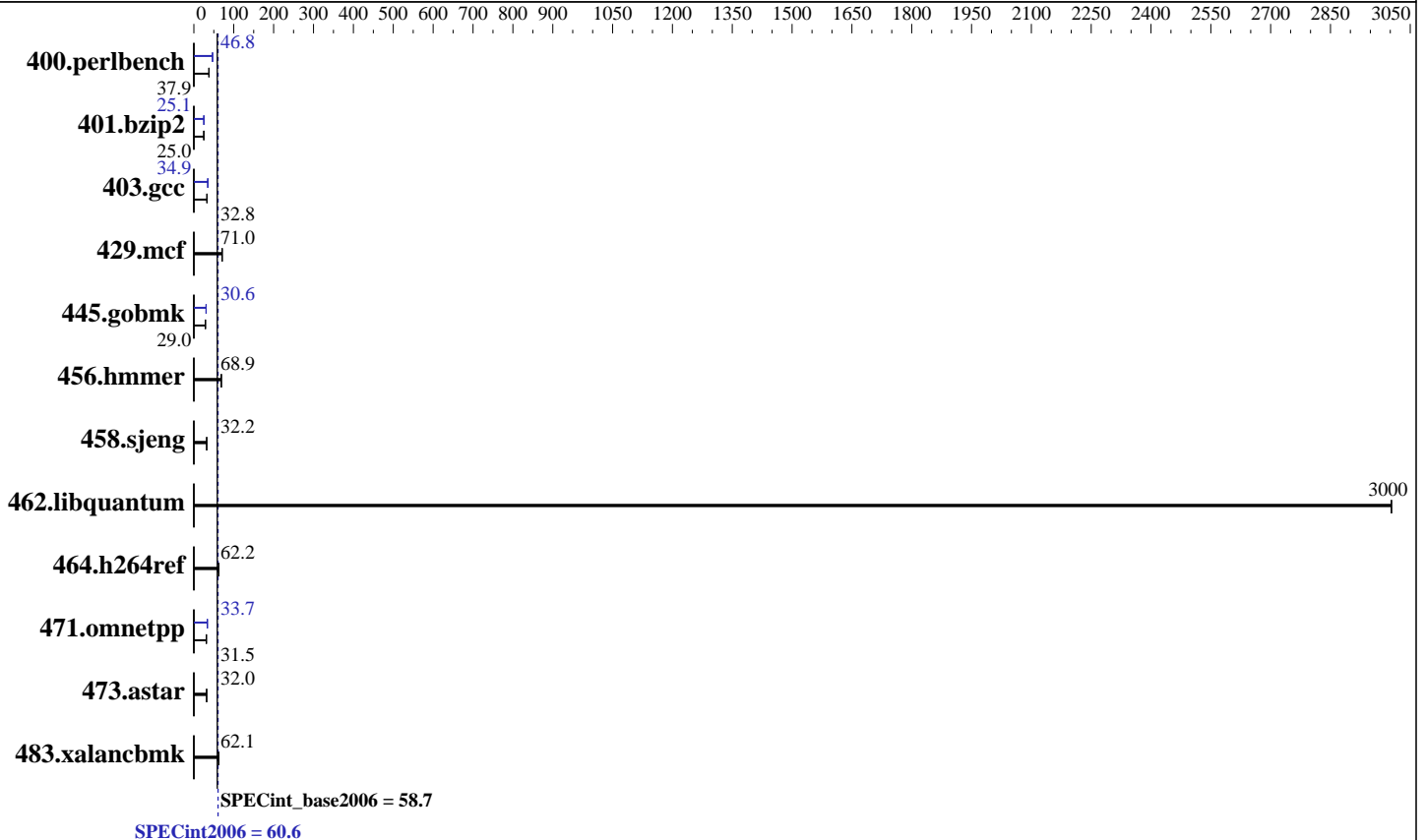
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Aug-2014

Hardware Availability: Aug-2014

Software Availability: Oct-2013



Hardware

CPU Name: Intel Core i7-5960X
CPU Characteristics: Intel Turbo Boost Technology up to 3.50 GHz
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 8 cores, 1 chip, 8 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: 20 MB I+D on chip per chip
Other Cache: None
Memory: 16 GB (4 x 4 GB 1Rx8 PC4-2133N-U)
Disk Subsystem: 480 GB Intel 520 Series SATA SSD
Other Hardware: None

Software

Operating System: Microsoft Windows 8.1 Pro 6.3.9600 N/A Build 9600
Compiler: C/C++: Version 14.0.1.139 of Intel C++ Studio XE for Windows;
 Libraries: Version 16.00.30319.01 of Microsoft Visual Studio 2010 Professional SP1
Auto Parallel: Yes
File System: NTFS
System State: Default
Base Pointers: 32/64-bit
Peak Pointers: 32/64-bit
Other Software: SmartHeap Library Version 10.0 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	258	37.9	260	37.6	<u>258</u>	<u>37.9</u>	<u>209</u>	<u>46.8</u>	209	46.7	209	46.8
401.bzip2	387	24.9	<u>386</u>	<u>25.0</u>	386	25.0	384	25.1	386	25.0	<u>384</u>	<u>25.1</u>
403.gcc	<u>245</u>	<u>32.8</u>	245	32.8	245	32.8	232	34.8	230	35.1	<u>231</u>	<u>34.9</u>
429.mcf	129	71.0	129	70.9	<u>129</u>	<u>71.0</u>	129	71.0	129	70.9	<u>129</u>	<u>71.0</u>
445.gobmk	362	29.0	361	29.0	<u>361</u>	<u>29.0</u>	343	30.6	<u>342</u>	<u>30.6</u>	342	30.7
456.hammer	135	68.9	136	68.8	<u>135</u>	<u>68.9</u>	135	68.9	136	68.8	<u>135</u>	<u>68.9</u>
458.sjeng	<u>375</u>	<u>32.2</u>	376	32.2	375	32.2	<u>375</u>	<u>32.2</u>	376	32.2	375	32.2
462.libquantum	6.90	3000	<u>6.90</u>	<u>3000</u>	6.90	3000	6.90	3000	<u>6.90</u>	<u>3000</u>	6.90	3000
464.h264ref	356	62.2	<u>356</u>	<u>62.2</u>	356	62.2	356	62.2	<u>356</u>	<u>62.2</u>	356	62.2
471.omnetpp	198	31.6	<u>198</u>	<u>31.5</u>	202	31.0	<u>185</u>	<u>33.7</u>	183	34.1	186	33.7
473.astar	<u>219</u>	<u>32.0</u>	219	32.0	219	32.1	<u>219</u>	<u>32.0</u>	219	32.0	219	32.1
483.xalancbmk	111	62.2	<u>111</u>	<u>62.1</u>	111	62.1	<u>111</u>	<u>62.2</u>	<u>111</u>	<u>62.1</u>	111	62.1

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 14.0 was set up to generate 64-bit binaries with the command:
"ipsxe-comp-vars.bat intel64 vs2010" (shortcut provided in the Intel(r) Parallel Studio XE 2013 program folder)

Platform Notes

Sysinfo program C:\SPEC14.0\Docs\sysinfo
\$Rev: 6775 \$ \$Date: 2011-08-16 # \$ \8787f7622badcf24e01c368b1db4377c
running on Clt8888888888788 Sun Aug 17 12:36:19 2014

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 8.1 Pro
OS Version    : 6.3.9600 N/A Build 9600
System Manufacturer: Gigabyte Technology Co., Ltd.
System Model   : To be filled by O.E.M.
Processor(s)  : 1 Processor(s) Installed.
               [01]: Intel64 Family 6 Model 63 Stepping 2 GenuineIntel ~3001 Mhz
BIOS Version  : American Megatrends Inc. Flo, 7/22/2014
Total Physical Memory: 16,218 MB
```

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

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Platform Notes (Continued)

L2CacheSize : 2048
L3CacheSize : 4096
MaxClockSpeed : 3001
Name : Intel(R) Core(TM) i7-5960X CPU @ 3.00GHz
NumberOfCores : 8
NumberOfLogicalProcessors: 16

(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

OMP_NUM_THREADS set to number of processors cores
KMP_AFFINITY set to granularity=fine,scatter
Binaries compiled on a system with 1x Intel Core i7-860 CPU
+ 8GB memory using Windows 7 Enterprise 64-bit

Base Compiler Invocation

C benchmarks:

icl -Qvc10 -Qstd=c99

C++ benchmarks:

icl -Qvc10

Base Portability Flags

400.perlbench: -DSPEC_CPU_P64 -DSPEC_CPU_WIN64_X64
-DSPEC_CPU_NO_NEED_VA_COPY
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 -DSPEC_CPU_NO_INTTYPES
471.omnetpp: -DSPEC_CPU_P64 -DSPEC_CPU_WIN64
473.astar: -DSPEC_CPU_P64
483.xalancbmk: -DSPEC_CPU_P64 -Qoption,cpp,--no_wchar_t_keyword



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Base Optimization Flags

C benchmarks:

`-QxCORE-AVX2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qauto-ilp32 /F512000000`

C++ benchmarks:

`-QxCORE-AVX2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
-Qauto-ilp32 /F512000000 shlw64M.lib -link /FORCE:MULTIPLE`

Base Other Flags

C benchmarks:

`403.gcc: -Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks:

`icl -Qvc10 -Qstd=c99`

C++ benchmarks:

`icl -Qvc10`

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 /F512000000 shlw64M.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
-Qauto-ilp32 /F512000000`

`403.gcc: -QxCORE-AVX2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qauto-ilp32 /F512000000`

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Peak Optimization Flags (Continued)

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
/F512000000

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 /F512000000
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-ic14.0-official-windows.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic14.0-official-windows.xml>



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For other inquiries, please contact webmaster@spec.org.

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