ASUSTeK Computer Inc.  
(Test Sponsor: Intel Corporation)

ASUS H97M-PLUS Motherboard (Intel Pentium G3460)

SPEC® CINT2006 Result

SPECint®2006 = 49.2

SPECint_base2006 = 47.2

CPU2006 license: 13
Tested by: Intel Corporation
Hardware Availability: Jul-2014
Software Availability: Oct-2013

Test date: Dec-2014
Test sponsor: Intel Corporation

CPU Name: Intel Pentium G3460
CPU Characteristics:
CPU MHz: 3500
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
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 Seagate SATA, 7200RPM
Other Hardware: None

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

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</tbody>
</table>

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 Clt10C37B4DEB68 Tue Dec 2 14:02:59 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 : ASUS  
Processor(s) : 1 Processor(s) Installed.  
System Model : All Series  
[01]: Intel64 Family 6 Model 60 Stepping 2 GenuineIntel ~3500 Mhz  
BIOS Version : American Megatrends Inc. 0317, 4/23/2014  
Total Physical Memory: 6,021 MB

Trying 'wmic cpu get /value'  
DeviceID : CPU0

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SPEC CINT2006 Result

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SPECCint_base2006 = 47.2

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Platform Notes (Continued)

L2CacheSize : 512
L3CacheSize : 3072
MaxClockSpeed : 3500
Name : Intel(R) Pentium(R) CPU G3460 @ 3.50GHz
NumberOfCores : 2
NumberOfLogicalProcessors: 2

(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_keyw
SPEC CINT2006 Result

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CPU2006 license: 13
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Base Optimization Flags

C benchmarks:
- -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
- -Qauto-ilp32 /F512000000

C++ benchmarks:
- -QxSSE4.2 -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: -QxSSE4.2(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: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
- -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias
- -Qauto-ilp32 /F512000000
403.gcc: -QxSSE4.2(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: -QxSSE4.2 (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: -QxSSE4.2 (pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) 
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias 
-Qauto-ilp32 /F512000000

C++ benchmarks:

471.omnetpp: -QxSSE4.2 (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

You can also download the XML flags source by saving the following link:
### SPEC CINT2006 Result

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

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