### SPEC® CFP2006 Result

ASUSTeK Computer Inc.  
(Test Sponsor: Intel Corporation)
ASUS F2A85-M PRO motherboard (AMD A10-6700 APU with Radeon HD Graphics)

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**SPECfp_rate2006 = 60.7**  
**SPECfp_rate_base2006 = 59.9**

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**SPECfp_rate_base2006 = 59.9**

**SPECfp_rate2006 = 60.7**

### Software

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| Operating System: | Microsoft Windows 7 Enterprise 6.1.7601 Service Pack 1 Build 7601 |
| Auto Parallel: | No |

Continued on next page
SPEC CFP2006 Result

ASUSTeK Computer Inc.
(Test Sponsor: Intel Corporation)
ASUS F2A85-M PRO motherboard (AMD A10-6700 APU
with Radeon HD Graphics)

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

L3 Cache: None
Other Cache: None
Memory: 4 GB (2 x 2 GB IRx8 PC3-12800U-11)
Disk Subsystem: 250 GB Seagate SATA HDD, 7200 RPM
Other Hardware: None

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/

Results Table

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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 13.1 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)

Submit Notes

Processes were bound to specific processors using the start command with the /affinity switch.
The config file option 'submit' was used to generate the affinity mask for each process.
SPEC CFP2006 Result

ASUSTeK Computer Inc.
(Test Sponsor: Intel Corporation)
ASUS F2A85-M PRO motherboard (AMD A10-6700 APU with Radeon HD Graphics)

SPECfp_rate2006 = 60.7
SPECfp_rate_base2006 = 59.9

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Platform Notes
Sysinfo program C:\SPEC13.1/Docs/sysinfo
$Rev: 6775 $ $Date:: 2011-08-16 #$ \8787f7622badcf24e01c368b1db4377c
running on F2A85MPRO Sun Jan 19 16:31:04 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 7 Enterprise
OS Version    : 6.1.7601 Service Pack 1 Build 7601
System Manufacturer: System manufacturer
System Model  : System Product Name
Processor(s)  : 1 Processor(s) Installed.
   [01]: AMD64 Family 21 Model 19 Stepping 1 AuthenticAMD ~3700 Mhz
BIOS Version  : American Megatrends Inc. 6303, 8/13/2013
Total Physical Memory: 3,271 MB

Trying 'wmic cpu get /value'
DeviceID      : CPU0
L2CacheSize   : 4096
L3CacheSize   : 0
MaxClockSpeed : 3700
Name          : AMD A10-6700 APU with Radeon(tm) HD Graphics
NumberOfCores : 2
NumberOfLogicalProcessors: 4

(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
Micron MT8JTF25664AZ-1G6 Series Memory DIMMs

General Notes
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

Continued on next page
ASUSTeK Computer Inc.  
(Test Sponsor: Intel Corporation)  
ASUS F2A85-M PRO motherboard (AMD A10-6700 APU  
with Radeon HD Graphics)  

**SPEC CFP2006 Result**  

SPECFp_rate2006 = 60.7  
SPECFp_rate_base2006 = 59.9

**CPU2006 license:** 13  
**Test date:** Jan-2014  
**Test sponsor:** Intel Corporation  
**Hardware Availability:** Aug-2013  
**Tested by:** Intel Corporation  
**Software Availability:** Apr-2013

## Base Compiler Invocation (Continued)

Fortran benchmarks:

```  
ifort
```

Benchmarks using both Fortran and C:

```  
icl -Qvc10 -Qstd=c99 ifort
```

## Base Portability Flags

410.bwaves: -DSPEC_CPU_P64  
416.gamess: -DSPEC_CPU_P64  
433.milc: -DSPEC_CPU_P64  
434.zeusmp: -DSPEC_CPU_P64  
435.gromacs: -DSPEC_CPU_P64  
436.cactusADM: -DSPEC_CPU_P64 /names:lowercase /assume:underscore  
437.leslie3d: -DSPEC_CPU_P64  
444.namd: -DSPEC_CPU_P64 /TP  
447.dealII: -DSPEC_CPU_P64 -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG  
- Qoption, cpp, --ms_incompat_treatment_of_commas_in_macros  
450.soplex: -DSPEC_CPU_P64  
453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_NEED_INVHYP -DNEED_INVHYP  
454.calculix: -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER /names:lowercase  
459.GemsFDTD: -DSPEC_CPU_P64  
465.tonto: -DSPEC_CPU_P64  
470.lbm: -DSPEC_CPU_P64  
481.wrf: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL  
482.sphinx3: -DSPEC_CPU_P64

## Base Optimization Flags

**C benchmarks:**

```  
/arch:AVX -Qipo -O3 -Qprec-div -Qansi-alias -Qopt-prefetch  
-Qauto-ilp32 /F1000000000 -link /FORCE:MULTIPLE
```

**C++ benchmarks:**

```  
/arch:AVX -Qipo -O3 -Qprec-div -Qansi-alias -Qopt-prefetch  
-Qcxx-features -Qauto-ilp32 /F1000000000 shlw64M.lib  
-link /FORCE:MULTIPLE
```

**Fortran benchmarks:**

```  
/arch:AVX -Qipo -O3 -Qprec-div -Qansi-alias -Qopt-prefetch  
/F1000000000 -link /FORCE:MULTIPLE
```

**Benchmarks using both Fortran and C:**

```  
/arch:AVX -Qipo -O3 -Qprec-div -Qansi-alias -Qopt-prefetch  
-Qauto-ilp32 /F1000000000 -link /FORCE:MULTIPLE
```
ASUS TeK Computer Inc.  
(Test Sponsor: Intel Corporation)  
ASUS F2A85-M PRO motherboard (AMD A10-6700 APU with Radeon HD Graphics)

SPEC CFP2006 Result

SPECfp_rate2006 = 60.7
SPECfp_rate_base2006 = 59.9

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jan-2014
Hardware Availability: Aug-2013
Software Availability: Apr-2013

Peak Compiler Invocation

C benchmarks:
   icl -Qvc10 -Qstd=c99

C++ benchmarks:
   icl -Qvc10

Fortran benchmarks:
   ifort

Benchmarks using both Fortran and C:
   icl -Qvc10 -Qstd=c99 ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
   433.milc: basepeak = yes
   470.lbm: basepeak = yes
   482.sphinx3: basepeak = yes

C++ benchmarks:
   444.namd: /arch:AVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Oa -Qauto-ilp32 /F1000000000000 shlW64M.lib -link /FORCE:MULTIPLE
   447.dealII: basepeak = yes
   450.soplex: /arch:AVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qauto-ilp32 /F1000000000000 shlW64M.lib -link /FORCE:MULTIPLE
   453.povray: /arch:AVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qauto-ilp32 /F1000000000000 shlW64M.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
   410.bwaves: basepeak = yes

Continued on next page
SPEC CFP2006 Result

ASUSTeK Computer Inc.
(Test Sponsor: Intel Corporation)
ASUS F2A85-M PRO motherboard (AMD A10-6700 APU with Radeon HD Graphics)

SPECfp_rate2006 = 60.7
SPECfp_rate_base2006 = 59.9

CPU2006 license: 13
Test sponsor: Intel Corporation
Test date: Jan-2014
Tested by: Intel Corporation
Hardware Availability: Aug-2013
Software Availability: Apr-2013

Peak Optimization Flags (Continued)

416.games: basepeak = yes
434.zeusmp: basepeak = yes
437.leslie3d: basepeak = yes
459.GemsFDTD: basepeak = yes

465.tonto: /arch:AVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div -Qunroll4 -Qauto /F1000000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes
436.cactusADM: basepeak = yes
454.calculix: basepeak = yes
481.wrf: basepeak = yes

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:

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