## SPEC® CFP2006 Result

**ASUSTeK Computer Inc.**  
(Test Sponsor: Intel Corporation)  
ASUS F2A85-M PRO Motherboard (AMD A8-5500 APU with Radeon HD Graphics)

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### Hardware

- **CPU Name:** AMD A8-5500  
- **CPU Characteristics:** AMD Turbo CORE technology up to 3.70 GHz  
- **CPU MHz:** 3200  
- **FPU:** Integrated  
- **CPU(s) enabled:** 4 cores, 1 chip, 4 cores/chip  
- **CPU(s) orderable:** 1 chip  
- **Primary Cache:** 128 KB I on chip per chip, 64 KB I shared / 2 cores; 16 KB D on chip per core  
- **Secondary Cache:** 4 MB I+D on chip per chip, 2 MB shared / 2 cores

### Software

- **Operating System:** Microsoft Windows 8.1 Pro  
- **Compiler:** C/C++: Version 14.0.1.139 of Intel C++ Studio XE for Windows; Fortran: Version 14.0.1.139 of Intel Fortran Studio XE for Windows; Libraries: Version 16.00.30319.01 of Microsoft Visual Studio 2010 Professional SP1  
- **Auto Parallel:** No

### Test Information

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

### Test Results

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**SPECfp_rate_base2006 = 60.7**

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ASUSTeK Computer Inc. (Test Sponsor: Intel Corporation)
ASUS F2A85-M PRO Motherboard (AMD A8-5500 APU with Radeon HD Graphics)

SPEC CFP2006 Result

SPECfp_rate2006 = 61.4
SPECfp_rate_base2006 = 60.7

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

L3 Cache: None
Other Cache: None
Memory: 8 GB (2 x 4 GB 2Rx4 PC3-12800U-11)
Disk Subsystem: 1 TB 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/

Test date: Jul-2014
Hardware Availability: Aug-2013
Software Availability: Oct-2013

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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 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)

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 A8-5500 APU with Radeon HD Graphics)

SPECfp_rate2006 = 61.4
SPECfp_rate_base2006 = 60.7

Platform Notes

Sysinfo program C:\SPEC14.0/Docs/sysinfo
$Rev: 6775 $ $Date:: 2011-08-16 #$ \8787f7622badcf24e01c368b1db4377c
running on Clt3085A9ABE495 Wed Jul 2 02:40:54 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: System manufacturer
System Model  : System Product Name
Processor(s)  : 1 Processor(s) Installed.
[01]: AMD64 Family 21 Model 16 Stepping 1 AuthenticAMD ~3200 Mhz
BIOS Version  : American Megatrends Inc. 6303, 8/13/2013
Total Physical Memory: 7,366 MB

Trying 'wmic cpu get /value'
DeviceID      : CPU0
L2CacheSize   : 4096
L3CacheSize   : 0
MaxClockSpeed : 3200
Name          : AMD A8-5500 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

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
SPEC CFP2006 Result

ASUSTeK Computer Inc.
(Test Sponsor: Intel Corporation)
ASUS F2A85-M PRO Motherboard (AMD A8-5500 APU with Radeon HD Graphics)

| SPECfp_rate2006 = 61.4 |
| SPECfp_rate_base2006 = 60.7 |

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

Test date: Jul-2014
Hardware Availability: Aug-2013
Software Availability: Oct-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.gamepp: -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 splW64M.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
ASUSTeK Computer Inc.  
(Test Sponsor: Intel Corporation)  
ASUS F2A85-M PRO Motherboard (AMD A8-5500 APU with Radeon HD Graphics)  

SPEC CFP2006 Result  

SPECfp_rate2006 = 61.4  
SPECfp_rate_base2006 = 60.7  

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

Test date: Jul-2014  
Hardware Availability: Aug-2013  
Software Availability: Oct-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 /F10000000000 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 /F10000000000 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 /F10000000000 shlw64m.lib -link /FORCE:MULTIPLE  

Fortran benchmarks:  
410.bwaves: basepeak = yes  

Continued on next page
ASUSTeK Computer Inc.
(Test Sponsor: Intel Corporation)
ASUS F2A85-M PRO Motherboard (AMD A8-5500 APU with Radeon HD Graphics)

SPECfp_rate2006 = 61.4
SPECfp_rate_base2006 = 60.7

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<th>Test date: Jul-2014</th>
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</tr>
<tr>
<td>Tested by: Intel Corporation</td>
<td>Software Availability: Oct-2013</td>
</tr>
</tbody>
</table>

Peak Optimization Flags (Continued)

416.gamess: 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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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.2.
Report generated on Tue Aug 12 15:02:01 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 12 August 2014.