## Intel Corporation

Intel DH61WW motherboard (Intel Core i3-2130)

<table>
<thead>
<tr>
<th>SPECfp_rate2006 = 71.9</th>
<th>SPECfp_rate_base2006 = 70.7</th>
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</thead>
</table>

### Hardware

- **CPU Name:** Intel Core i3-2130
- **CPU Characteristics:**
  - CPU MHz: 3400
  - FPU: Integrated
  - CPU(s) enabled: 2 cores, 1 chip, 2 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

### Software

- **Operating System:** Microsoft Windows 7 Ultimate 6.1.7601 Service Pack 1 Build 7601
- **Compiler:**
  - C/C++: Version 12.1.0.229 of Intel C++ Studio XE for Windows;
  - Fortran: Version 12.1.0.229 of Intel Fortran Studio XE for Windows;
  - Libraries: Version 15.00.30729.01 of Microsoft Visual Studio 2008 Professional SP1
- **Auto Parallel:** No

### Test Details

- **CPU2006 license:** 13
- **Test sponsor:** Intel Corporation
- **Tested by:** Intel Corporation
- **Test date:** Dec-2011
- **Hardware Availability:** Sep-2011
- **Software Availability:** Sep-2011

### Test Results

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<tr>
<th>Benchmark</th>
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**Total:** SPECfp_rate_base2006 = 70.7
**Intel Corporation**

Intel DH61WW motherboard (Intel Core i3-2130)

**SPEC CFP2006 Result**

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</table>

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

**Compiler Invocation Notes**

ipsxe-comp-vars batch file invoked with intel64

**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.
### Intel Corporation

Intel DH61WW motherboard (Intel Core i3-2130)

<table>
<thead>
<tr>
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<tbody>
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</tbody>
</table>

**CPU2006 license:** 13  
**Test date:** Dec-2011  
**Test sponsor:** Intel Corporation  
**Tested by:** Intel Corporation

### Platform Notes

Sysinfo program C:\SPEC12.1/Docs/sysinfo  
$Rev: 6775 $ $Date:: 2011-08-16 #$ \8787f7622badcf24e01c368b1db4377c  

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 Ultimate  
OS Version : 6.1.7601 Service Pack 1 Build 7601  
System Manufacturer: INTEL_  
System Model : DH61WW_  
Processor(s) : 1 Processor(s) Installed.  
[01]: Intel64 Family 6 Model 42 Stepping 7 GenuineIntel ~3400 Mhz  
Total Physical Memory: 4,004 MB

Trying 'wmic cpu get /value'  
DeviceID : CPU0  
L2CacheSize : 512  
L3CacheSize : 3072  
MaxClockSpeed : 3400  
Name : Intel(R) Core(TM) i3-2130 CPU @ 3.40GHZ  
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:  
```bash  
icl -Qvc9 -Qstd=c99  
```

C++ benchmarks:  
```bash  
icl -Qvc9  
```
Intel Corporation

Intel DH61WW motherboard (Intel Core i3-2130)

SPECfp_rate2006 = \(71.9\)
SPECfp_rate_base2006 = \(70.7\)

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation
Test date: Dec-2011
Hardware Availability: Sep-2011
Software Availability: Sep-2011

Base Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc9 -Qstd=c99 ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_P64 -names:lowercase
416.gams: -DSPEC_CPU_P64
433.milc: -DSPEC_CPU_P64
434.eusmp: -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
450.soplex: -DSPEC_CPU_P64
453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
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:

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

C++ benchmarks:

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

Fortran benchmarks:

-QxAVX -Qipo -O3 -Qprec-div -Qansi-alias -Qopt-prefetch
/F1000000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

-QxAVX -Qipo -O3 -Qprec-div -Qansi-alias -Qopt-prefetch
-Qauto-ilp32 /F1000000000 -link /FORCE:MULTIPLE
Intel Corporation

Intel DH61WW motherboard (Intel Core i3-2130)

SPECfp_rate2006 = 71.9
SPECfp_rate_base2006 = 70.7

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

Test date: Dec-2011
Hardware Availability: Sep-2011
Software Availability: Sep-2011

Peak Compiler Invocation

C benchmarks:
   icl -Qvc9 -Qstd=c99

C++ benchmarks:
   icl -Qvc9

Fortran benchmarks:
   ifort

Benchmarks using both Fortran and C:
   icl -Qvc9 -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: -QxAVX -Qipo -O3 -Qprec-div -Qunroll2 -Qansi-alias
   -Qauto-ilp32 /P1000000000 -link /FORCE:MULTIPLE

C++ benchmarks:
   444.namd: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo
   -O3 -Qprec-div -Oa -Qauto-ilp32 /P1000000000 shlw64M.lib
   -link /FORCE:MULTIPLE
   447.dealII: basepeak = yes
   450.soplex: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo
   -O3 -Qauto-ilp32 /P1000000000 shlw64M.lib
   -link /FORCE:MULTIPLE
   453.povray: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo
   -O3 -Qprec-div -Qopt-prefetch -Qauto-ilp32 /P1000000000
   shlw64M.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
## SPEC CFP2006 Result

### Intel Corporation

**Intel DH61WW motherboard (Intel Core i3-2130)**

**SPECfp_rate2006 = 71.9**  
**SPECfp_rate_base2006 = 70.7**

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### Peak Optimization Flags (Continued)

- 410.bwaves: basepeak = yes
- 416.gamess: basepeak = yes
- 434.zeusmp: basepeak = yes
- 437.leslie3d: basepeak = yes
- 459.GemsFDTD: basepeak = yes
- 465.tonto: -QxAVX(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 questions about this result, please contact the tester.  
For other inquiries, please contact webmaster@spec.org.

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