**Intel Corporation**

Intel DH87MC Motherboard (Intel Pentium G3430)

**SPECfp®_rate2006 = 80.9**

**SPECfp_rate_base2006 = 80.0**

<table>
<thead>
<tr>
<th>CPU2006 license:</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test sponsor:</td>
<td>Intel Corporation</td>
</tr>
<tr>
<td>Tested by:</td>
<td>Intel Corporation</td>
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<table>
<thead>
<tr>
<th>Software Availability:</th>
<th>Sep-2013</th>
</tr>
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<tbody>
<tr>
<td>Test date:</td>
<td>Jun-2014</td>
</tr>
<tr>
<td>Hardware Availability:</td>
<td>Oct-2013</td>
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</tbody>
</table>

### Hardware

<table>
<thead>
<tr>
<th>CPU Name:</th>
<th>Intel Pentium G3430</th>
</tr>
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<tbody>
<tr>
<td>CPU Characteristics:</td>
<td></td>
</tr>
<tr>
<td>CPU MHz:</td>
<td>3300</td>
</tr>
<tr>
<td>FPU:</td>
<td>Integrated</td>
</tr>
<tr>
<td>CPU(s) enabled:</td>
<td>2 cores, 1 chip, 2 cores/chip</td>
</tr>
<tr>
<td>CPU(s) orderable:</td>
<td>1 chip</td>
</tr>
<tr>
<td>Primary Cache:</td>
<td>32 KB I + 32 KB D on chip per core</td>
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<tr>
<td>Secondary Cache:</td>
<td>256 KB I+D on chip per core</td>
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### Software

<table>
<thead>
<tr>
<th>Operating System:</th>
<th>Microsoft Windows 8.1 Pro 6.3.9600 N/A Build 9600</th>
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</thead>
<tbody>
<tr>
<td>Auto Parallel:</td>
<td>No</td>
</tr>
</tbody>
</table>

**Continued on next page**
Intel Corporation

Intel DH87MC Motherboard (Intel Pentium G3430)

<table>
<thead>
<tr>
<th>SPEC CFP2006 Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECfp_rate2006 = 80.9</td>
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<tr>
<td>SPECfp_rate_base2006 = 80.0</td>
</tr>
</tbody>
</table>

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation
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 HDD, 7200 RPM
Other Hardware: None

File System: NTFS
System State: Default
Base Pointers: 32/64-bit
Peak Pointers: 32/64-bit
Software Availability: Oct-2013
Hardware Availability: Sep-2013
Test date: Jun-2014
Tested by: Intel Corporation
Test sponsor: Intel Corporation

<table>
<thead>
<tr>
<th>Benchmark</th>
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<th>Ratio</th>
<th>Seconds</th>
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<td>277</td>
<td>98.2</td>
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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)

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 DH87MC Motherboard (Intel Pentium G3430) SPECfp_rate2006 = 80.9
SPECfp_rate_base2006 = 80.0

CPU2006 license: 13
Test date: Jun-2014
Test sponsor: Intel Corporation
Hardware Availability: Sep-2013
Tested by: Intel Corporation
Software Availability: Oct-2013

Platform Notes

Sysinfo program C:\SPEC14.0/Docs/sysinfo
$Rev: 6775 $ $Date:: 2011-08-16 #$ \8787f7622badcf24e01c368b1db4377c
running on Clt54BEF708FF5C Sat Jun 28 10:38:39 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: INTEL_
System Model : DH87MC__
Processor(s) : 1 Processor(s) Installed.
[01]: Intel64 Family 6 Model 60 Stepping 3 GenuineIntel ~3300 Mhz
Total Physical Memory: 7,862 MB

Trying 'wmic cpu get /value'
DeviceID : CPU0
L2CacheSize : 512
L3CacheSize : 3072
MaxClockSpeed : 3300
Name : Intel(R) Pentium(R) CPU G3430 @ 3.30GHz
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

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
Intel Corporation

Intel DH87MC Motherboard (Intel Pentium G3430)

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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

Base Optimization Flags

C benchmarks:
-QxSSE4.2 -Qipo -O3 -Qprec-div -Qansi-alias -Qopt-prefetch
-Qauto-1lp32 /F1000000000 -link /FORCE:MULTIPLE

C++ benchmarks:
-QxSSE4.2 -Qipo -O3 -Qprec-div -Qansi-alias -Qopt-prefetch
-Qcxx-features -Qauto-1lp32 /F1000000000 shlw64M.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:
-QxSSE4.2 -Qipo -O3 -Qprec-div -Qansi-alias -Qopt-prefetch
/F1000000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
-QxSSE4.2 -Qipo -O3 -Qprec-div -Qansi-alias -Qopt-prefetch
-Qauto-1lp32 /F1000000000 -link /FORCE:MULTIPLE
Intel Corporation
Intel DH87MC Motherboard (Intel Pentium G3430)

SPECfp_rate2006 = 80.9
SPECfp_rate_base2006 = 80.0

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: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
  -Qipo -O3 -Qprec-div- -Oa -Qauto-ilp32 /F1000000000 shlw64M.lib
  -link /FORCE:MULTIPLE

447.dealII: basepeak = yes
450.soplex: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
  -Qipo -O3 -Qauto-ilp32 /F1000000000 shlw64M.lib
  -link /FORCE:MULTIPLE

453.povray: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
  -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qauto-ilp32
  /F1000000000 shlw64M.lib
  -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: basepeak = yes

Continued on next page
Intel Corporation
Intel DH87MC Motherboard (Intel Pentium G3430)

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

Test date: Jun-2014
Hardware Availability: Sep-2013
Software Availability: Oct-2013

Peak Optimization Flags (Continued)

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

465.tonto: -QxSSE4.2(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 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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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