Intel Corporation

Intel DH57JG Motherboard (Intel Core i3-560)

<table>
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<th>SPECint_rate_base2006</th>
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<td>= 64.7</td>
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**CPU2006 license:** 13

**Test sponsor:** Intel Corporation

**Tested by:** Intel Corporation

**Test date:** Jul-2011

**Hardware Availability:** Aug-2010

**Software Availability:** Apr-2011

<table>
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<tr>
<th>Benchmark</th>
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<td>471.omnetpp</td>
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<td>473.astar</td>
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<tr>
<td>483.xalancbmk</td>
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</table>

**Software**

**Operating System:** Windows 7 Ultimate (64-bit)

**Compiler:** Intel C++ Compiler XE for IA32 and Intel 64 Version 12.0.3.176 Build 20110309

**Microsoft Visual Studio 2008 Professional SP1 (for libraries)**

**Auto Parallel:** No

**File System:** NTFS

**System State:** Default

**Base Pointers:** 32-bit

**Peak Pointers:** 32/64-bit

**Other Software:** SmartHeap Library Version 9.01 from http://www.microquill.com/
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SPECint_rate2006 = 70.1
SPECint_rate_base2006 = 64.7

Results Table

<table>
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<tr>
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<th>Seconds</th>
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<td>470</td>
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<td>58.8</td>
</tr>
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</table>

Base Compiler Invocation

C benchmarks:
icl -Qvc9 -Qstd=c99

C++ benchmarks:
icl -Qvc9

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DWIN32 -DSPEC_CPU_NO_INTTYPES
483.xalancbmk: -Qoption,cpp,-no_wchar_t_keyword

Submit Notes
The config file option 'submit' was used.
The start command with the /affinity switch was used to bind processes to cores

General Notes
Tested systems can be used with Shin-G ATX case,
PC Power and Cooling 1200W power supply

Base Compiler Invocation

C benchmarks:
icl -Qvc9 -Qstd=c99

C++ benchmarks:
icl -Qvc9

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DWIN32 -DSPEC_CPU_NO_INTTYPES
483.xalancbmk: -Qoption,cpp,-no_wchar_t_keyword
Intel Corporation

Intel DH57JG Motherboard (Intel Core i3-560)

**SPECint_rate2006** = 70.1
**SPECint_rate_base2006** = 64.7

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

**Test date:** Jul-2011
**Hardware Availability:** Aug-2010
**Software Availability:** Apr-2011

---

**Base Optimization Flags**

- **C benchmarks:**
  - -QxSSE4.2 -Qipo -O3 -Qprec-div -Qopt-prefetch /F512000000

- **C++ benchmarks:**
  - -QxSSE4.2 -Qipo -O3 -Qprec-div -Qopt-prefetch -Qcxx-features
  - /F512000000 shlW32M.lib
  - -link /FORCE:MULTIPLE

---

**Base Other Flags**

- **C benchmarks:**
  - 403.gcc: -Dalloca=_alloca

---

**Peak Compiler Invocation**

- **C benchmarks (except as noted below):**
  - icl -Qvc9 -Qstd=c99
  - 456.hmmer: C:/Program Files (x86)/Intel/ComposerXE-2011/bin/intel64/icl.exe
  - 458.sjeng: C:/Program Files (x86)/Intel/ComposerXE-2011/bin/intel64/icl.exe
  - 462.libquantum: C:/Program Files (x86)/Intel/ComposerXE-2011/bin/intel64/icl.exe
    - -Qstd=c99

- **C++ benchmarks (except as noted below):**
  - icl -Qvc9
  - 473.astar: C:/Program Files (x86)/Intel/ComposerXE-2011/bin/intel64/icl.exe

---

**Peak Portability Flags**

- 403.gcc: -DSPEC_CPU_WIN32
- 456.hmmer: -DSPEC_CPU_P64
- 458.sjeng: -DSPEC_CPU_P64
- 462.libquantum: -DSPEC_CPU_P64
- 464.h264ref: -DWIN32 -DSPEC_CPU_NO_INTTYPES
- 473.astar: -DSPEC_CPU_P64
- 483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword
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CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jul-2011
Hardware Availability: Aug-2010
Software Availability: Apr-2011

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
/F512000000 shlW32M.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
/F512000000

403.gcc: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
- Qipo -O3 -Qprec-div -Qopt-prefetch /F512000000

429.mcf: -QxSSE4.2 -Qipo -O3 -Qprec-div -Qopt-prefetch
/F512000000

445.gobmk: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
- Qipo -O2 -Qprec-div -Qansi-alias /F512000000

456.hmmer: -Qauto-ilp32 -QxSSE4.2(pass 2) -Qprof_gen(pass 1)
- Qprof_use(pass 2) - Qipo -O3 -Qprec-div -Qopt-prefetch
/F512000000

458.sjeng: -Qauto-ilp32 -QxSSE4.2(pass 2) -Qprof_gen(pass 1)
- Qprof_use(pass 2) - Qipo -O3 -Qprec-div -Qopt-prefetch
/F512000000

462.libquantum: -Qauto-ilp32 -QxSSE4.2 -Qipo -O3 -Qprec-div-
-Qopt-prefetch /F512000000

464.h264ref: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
- Qipo -O3 -Qprec-div -Qunroll12 -Qansi-alias /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 /F512000000 shlW32M.lib
- link /FORCE:MULTIPLE

473.astar: -Qauto-ilp32 -QxSSE4.2 -Qipo -O3 -Qprec-div-
- Qopt-prefetch /F512000000 shlW64M.lib
- link /FORCE:MULTIPLE

483.xalancbmk: basepeak = yes
Intel Corporation

Intel DH57JG Motherboard (Intel Core i3-560)

| SPECint_rate2006 = | 70.1 |
| SPECint_rate_base2006 = | 64.7 |

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

Test date: Jul-2011
Hardware Availability: Aug-2010
Software Availability: Apr-2011

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

456.hmmer: -link -LIBPATH:C:/Program Files (x86)/Intel/ComposerXE-2011/compiler/lib/intel64
  -link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 9.0/VC/lib/AMD64
  -link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 9.0/VC/lib
  -link -LIBPATH:C:/Program Files (x86)/Microsoft SDKs/Windows/v7.0A/lib/x64

458.sjeng: -link -LIBPATH:C:/Program Files (x86)/Intel/ComposerXE-2011/compiler/lib/intel64
  -link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 9.0/VC/lib/AMD64
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462.libquantum: -link -LIBPATH:C:/Program Files (x86)/Intel/ComposerXE-2011/compiler/lib/intel64
  -link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 9.0/VC/lib/AMD64
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C++ benchmarks:

473.astar: -link -LIBPATH:C:/Program Files (x86)/Intel/ComposerXE-2011/compiler/lib/intel64
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  -link -LIBPATH:C:/Program Files (x86)/Microsoft SDKs/Windows/v7.0A/lib/x64

The flags files that were used to format this result can be browsed at

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-Windows-Platform-Settings.20110719.xml

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

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