



SPEC® CINT2006 Result

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Intel Corporation

Intel DQ87PG motherboard (Intel Celeron G1820T)

SPECint_rate2006 = 59.9

CPU2006 license: 13

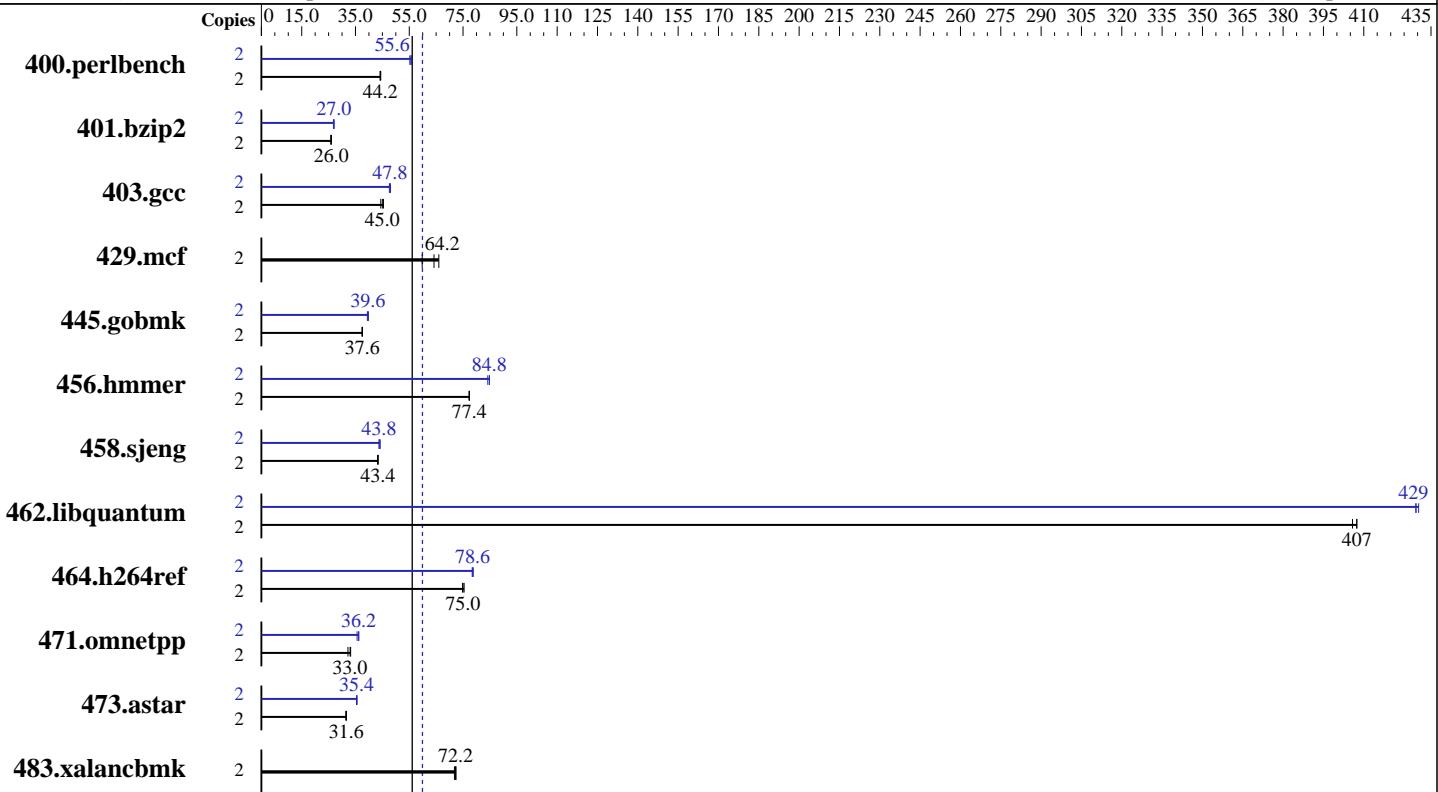
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Mar-2014

Hardware Availability: Dec-2013

Software Availability: Apr-2013



Hardware		Software	
CPU Name:	Intel Celeron G1820T	Operating System:	Microsoft Windows 7 Enterprise
CPU Characteristics:			6.1.7601 Service Pack 1 Build 7601
CPU MHz:	2400	Compiler:	C/C++: Version 13.1.1.171 of Intel C++ Studio XE for Windows;
FPU:	Integrated		Libraries: Version 16.00.30319.01 of Microsoft Visual Studio 2010 Professional SP1
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip	Auto Parallel:	No
CPU(s) orderable:	1 chip	File System:	NTFS
Primary Cache:	32 KB I + 32 KB D on chip per core	System State:	Default
Secondary Cache:	256 KB I+D on chip per core	Base Pointers:	32-bit
L3 Cache:	2 MB I+D on chip per chip	Peak Pointers:	32/64-bit
Other Cache:	None	Other Software:	SmartHeap Library Version 10.0 from http://www.microquill.com/
Memory:	4 GB (2 x 2 GB 1Rx8 PC3-12800U-11, running at 1333 MHz and CL9)		
Disk Subsystem:	250 GB Seagate SATA HDD, 7200 RPM		
Other Hardware:	None		



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	441	44.2	441	44.4	442	44.2	2	353	55.2	351	55.8	351	55.6
401.bzip2	2	749	25.8	744	26.0	740	26.0	2	718	26.8	717	27.0	713	27.0
403.gcc	2	363	44.4	354	45.4	358	45.0	2	338	47.6	337	47.8	335	48.0
429.mcf	2	305	59.8	284	64.2	276	66.0	2	305	59.8	284	64.2	276	66.0
445.gobmk	2	560	37.4	559	37.6	559	37.6	2	529	39.6	528	39.8	531	39.4
456.hmmer	2	241	77.4	242	77.2	241	77.4	2	220	84.8	221	84.2	220	84.8
458.sjeng	2	558	43.4	560	43.2	557	43.4	2	548	44.2	552	43.8	552	43.8
462.libquantum	2	102	407	102	406	102	407	2	96.5	429	96.3	430	96.5	429
464.h264ref	2	591	75.0	591	74.8	587	75.4	2	565	78.4	562	78.8	564	78.6
471.omnetpp	2	376	33.2	387	32.2	379	33.0	2	344	36.2	351	35.6	346	36.2
473.astar	2	445	31.6	445	31.6	447	31.4	2	395	35.6	397	35.4	396	35.4
483.xalancbmk	2	192	71.8	191	72.2	191	72.4	2	192	71.8	191	72.2	191	72.4

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 32-bit binaries with the command:
 "ipsxe-comp-vars.bat ia32 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.

Platform Notes

Sysinfo program C:\SPEC13.1\Docs\sysinfo
\$Rev: 6775 \$ \$Date::: 2011-08-16 #\\$ \8787f7622badcf24e01c368b1db4377c
running on Clt7C05070FB382 Sat Mar 8 06:47:05 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: INTEL_
System Model : DQ87PG_
Processor(s) : 1 Processor(s) Installed.
Continued on next page



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Platform Notes (Continued)

[01]: Intel64 Family 6 Model 60 Stepping 3 GenuineIntel ~2400 Mhz
BIOS Version : Intel(R) Corp. PGQ8710H.86A.0036.2013.0702.1908, 7/2/2013
Total Physical Memory: 3,749 MB

```
Trying 'wmic cpu get /value'  
DeviceID      : CPU0  
L2CacheSize   : 512  
L3CacheSize   : 2048  
MaxClockSpeed : 2400  
Name          : Intel(R) Celeron(R) CPU G1820T @ 2.40GHz  
NumberOfCores  : 2  
NumberOfLogicalProcessors: 2
```

(End of data from sysinfo program)
BIOS: SATA mode set to RAID
Windows Disk Driver: Intel Rapid Storage Technology 12.5.0.1066
Windows Chipset Driver: Intel Chipset Driver 9.4.0.1027

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
```

Base Portability Flags

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



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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 -Qvc10 -Qstd=c99
```

```
456.hmmr: C:\Program Files (x86)\Intel\Composer XE 2013.171/bin/intel64/icl.exe
```

```
458.sjeng: C:\Program Files (x86)\Intel\Composer XE 2013.171/bin/intel64/icl.exe
```

```
462.libquantum: C:\Program Files (x86)\Intel\Composer XE 2013.171/bin/intel64/icl.exe  
-Qstd=c99
```

C++ benchmarks (except as noted below):

```
icl -Qvc10
```

```
473.astar: C:\Program Files (x86)\Intel\Composer XE 2013.171/bin/intel64/icl.exe
```

Peak Portability Flags

```
403.gcc: -DSPEC_CPU_WIN32
```

```
456.hmmr: -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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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: basepeak = yes
```

```
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- -Qunroll14
            /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
```



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Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

456.hmmer: -link -LIBPATH:C:\Program Files (x86)\Intel\Composer XE 2013.171\compiler\lib/intel64
-link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 10.0/VC/lib/AMD64
-link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 10.0/VC/lib
-link -LIBPATH:C:/Program Files (x86)/Microsoft SDKs/Windows/v7.0A/lib/x64

458.sjeng: -link -LIBPATH:C:\Program Files (x86)\Intel\Composer XE 2013.171\compiler\lib/intel64
-link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 10.0/VC/lib/AMD64
-link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 10.0/VC/lib
-link -LIBPATH:C:/Program Files (x86)/Microsoft SDKs/Windows/v7.0A/lib/x64

462.libquantum: -link -LIBPATH:C:\Program Files (x86)\Intel\Composer XE 2013.171\compiler\lib/intel64
-link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 10.0/VC/lib/AMD64
-link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 10.0/VC/lib
-link -LIBPATH:C:/Program Files (x86)/Microsoft SDKs/Windows/v7.0A/lib/x64

C++ benchmarks:

473.astar: -link -LIBPATH:C:\Program Files (x86)\Intel\Composer XE 2013.171\compiler\lib/intel64
-link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 10.0/VC/lib/AMD64
-link -LIBPATH:C:/Program Files (x86)/Microsoft Visual Studio 10.0/VC/lib
-link -LIBPATH:C:/Program Files (x86)/Microsoft SDKs/Windows/v7.0A/lib/x64

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic13.1-official-windows.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic13.1-official-windows.xml>

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

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