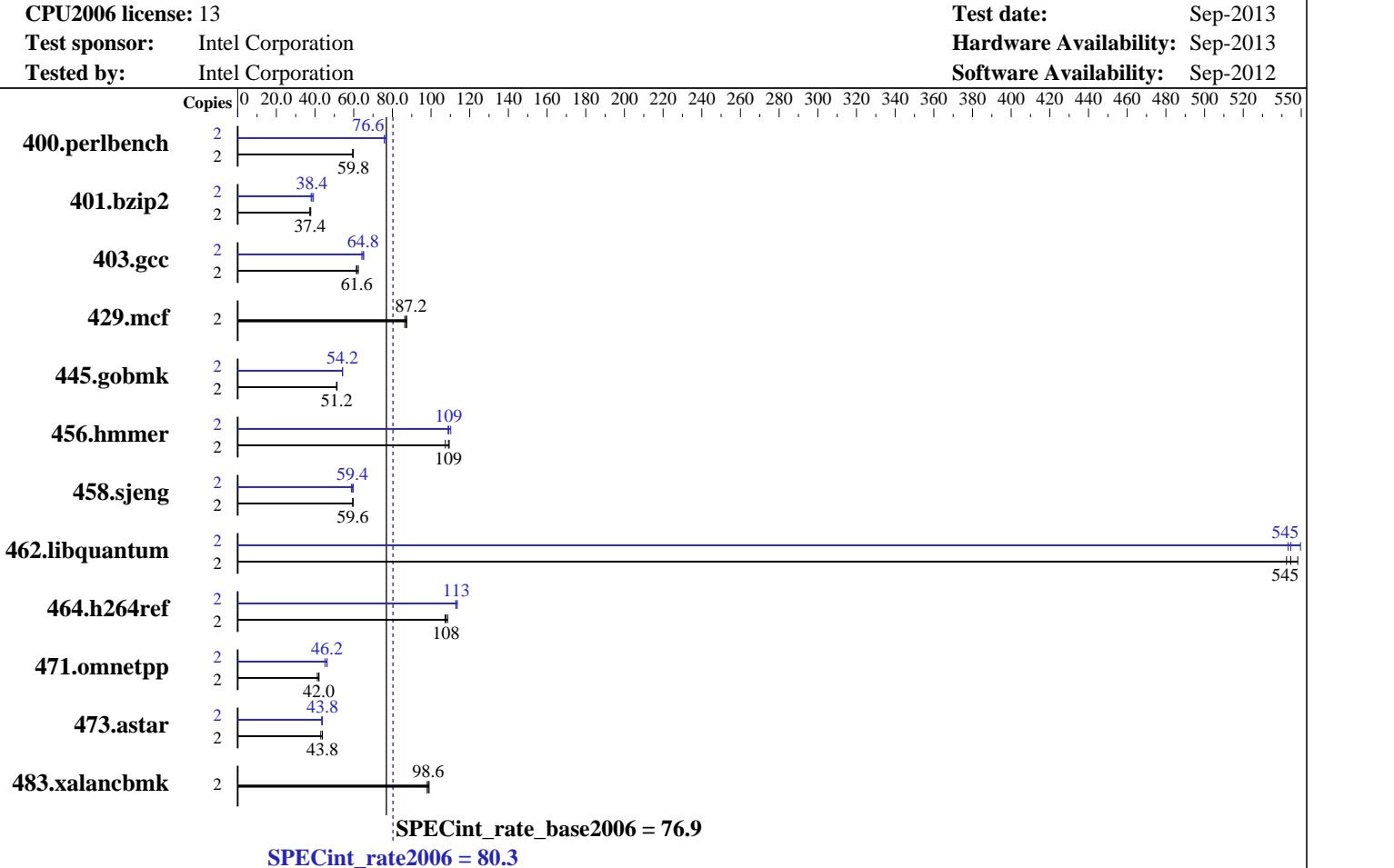# SPEC® CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

Intel DQ87PG motherboard (Intel Pentium G3430)

$SPECint^{®}\_rate2006 =$ 80.3

$SPECint\_rate\_base2006 =$ 76.9

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

Test date: Sep-2013
Hardware Availability: Sep-2013
Software Availability: Sep-2012

Copies

400.perlbench	2 — 76.6 / 2 — 59.8
401.bzip2	2 — 38.4 / 2 — 37.4
403.gcc	2 — 64.8 / 2 — 61.6
429.mcf	2 — 87.2
445.gobmk	2 — 54.2 / 2 — 51.2
456.hmmer	2 — 109 / 2 — 109
458.sjeng	2 — 59.4 / 2 — 59.6
462.libquantum	2 — 545 / 2 — 545
464.h264ref	2 — 113 / 2 — 108
471.omnetpp	2 — 46.2 / 2 — 42.0
473.astar	2 — 43.8 / 2 — 43.8
483.xalancbmk	2 — 98.6

SPECint_rate_base2006 = 76.9
SPECint_rate2006 = 80.3

Hardware

CPU Name:	Intel Pentium G3430
CPU Characteristics:	
CPU MHz:	3300
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
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
L3 Cache:	3 MB I+D on chip per chip
Other Cache:	None
Memory:	4 GB (2 x 2 GB 1Rx8 PC3-12800U-11)
Disk Subsystem:	250 GB Seagate SATA HDD, 7200 RPM
Other Hardware:	None

Software

Operating System:	Microsoft Windows 7 Enterprise 6.1.7601 Service Pack 1 Build 7601
Compiler:	C/C++: Version 13.1.1.171 of Intel C++ Studio XE for Windows; Libraries: Version 15.00.30729.01 of Microsoft Visual Studio 2008 Professional SP1
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	SmartHeap Library Version 10.0 from http://www.microquill.com/

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Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	327	59.8	329	59.4	**327**	**59.8**	2	258	75.8	255	76.6	**255**	**76.6**
401.bzip2	2	517	37.4	**516**	**37.4**	511	37.8	2	**501**	**38.4**	507	38.0	493	39.2
403.gcc	2	**262**	**61.6**	262	61.4	258	62.4	2	247	65.2	251	64.2	**249**	**64.8**
429.mcf	2	211	86.4	**209**	**87.2**	209	87.4	2	211	86.4	**209**	**87.2**	209	87.4
445.gobmk	2	**409**	**51.2**	409	51.4	409	51.2	2	**388**	**54.2**	388	54.2	387	54.2
456.hmmer	2	**171**	**109**	171	109	174	107	2	169	110	171	109	**171**	**109**
458.sjeng	2	**406**	**59.6**	406	59.6	407	59.6	2	412	58.8	**408**	**59.4**	405	59.8
462.libquantum	2	**76.1**	**545**	75.6	548	76.4	542	2	76.3	543	**76.1**	**545**	75.4	550
464.h264ref	2	413	107	407	109	**411**	**108**	2	**392**	**113**	392	113	390	114
471.omnetpp	2	**298**	**42.0**	304	41.2	298	42.0	2	277	45.2	**271**	**46.2**	271	46.2
473.astar	2	320	43.8	**321**	**43.8**	326	43.0	2	321	43.8	**321**	**43.8**	324	43.4
483.xalancbmk	2	**140**	**98.6**	140	99.0	141	98.0	2	**140**	**98.6**	140	99.0	141	98.0

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 13.0 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 Clt7C05070FB2B7 Mon Sep 23 13:35:25 2013

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 ~3300 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    : 3072
  MaxClockSpeed : 3300
  Name           : Intel(R) Pentium(R) CPU G3430 @ 3.30GHz
  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:
```
icl -Qvc10 -Qstd=c99
```

C++ benchmarks:
```
icl -Qvc10
```

Peak Portability Flags

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

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
```

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Peak Optimization Flags (Continued)

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: Same as 403.gcc

458.sjeng: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll4 /F512000000

462.libquantum: -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- -Qunroll2 -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: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000 shlW32M.lib   -link /FORCE:MULTIPLE

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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