



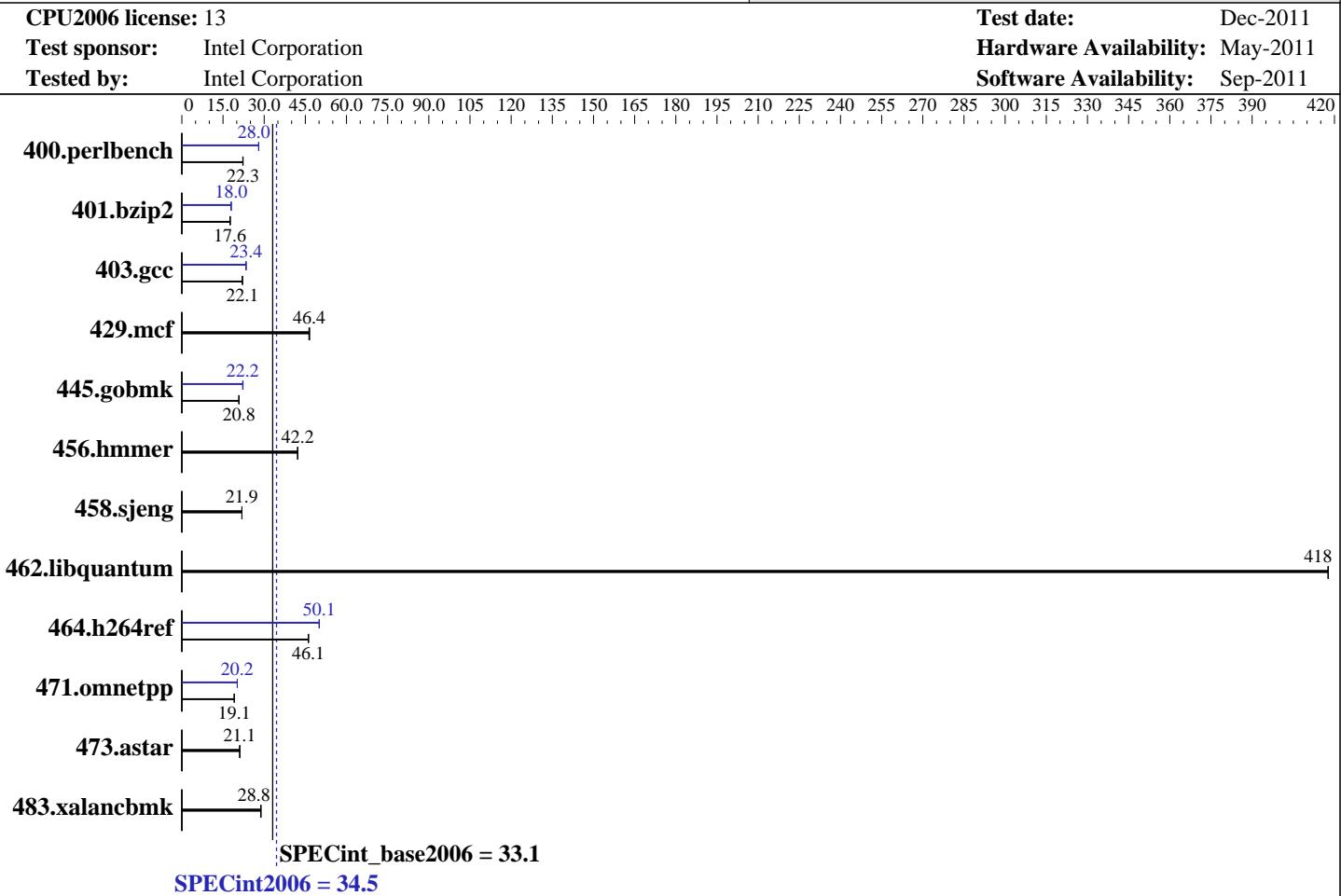
SPEC® CINT2006 Result

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Intel Corporation

Intel DH61WW motherboard (Intel Pentium G840)

SPECint®2006 = 34.5



Hardware		Software
CPU Name:	Intel Pentium G840	Operating System: Microsoft Windows 7 Ultimate 6.1.7601 Service Pack 1 Build 7601
CPU Characteristics:		Compiler: C/C++: Version 12.1.0.229 of Intel C++ Studio XE for Windows; Libraries: Version 15.0.30729.01 of Microsoft Visual Studio 2008 Professional SP1
CPU MHz:	2800	Auto Parallel: Yes
FPU:	Integrated	File System: NTFS
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip	System State: Default
CPU(s) orderable:	1 chip	Base Pointers: 32/64-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers: 32/64-bit
Secondary Cache:	256 KB I+D on chip per core	Other Software: SmartHeap Library Version 9.01 from http://www.microquill.com/
L3 Cache:	3 MB I+D on chip per chip	
Other Cache:	None	
Memory:	2 GB (2 x 1 GB 1Rx16 PC3-10600U-9)	
Disk Subsystem:	1 TB Seagate SATA, 7200 RPM	
Other Hardware:	None	



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Software Availability: Sep-2011

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	440	22.2	439	22.3	439	22.3	349	28.0	349	28.0	349	28.0
401.bzip2	545	17.7	549	17.6	551	17.5	538	17.9	537	18.0	537	18.0
403.gcc	365	22.0	364	22.1	365	22.1	344	23.4	344	23.4	344	23.4
429.mcf	196	46.6	197	46.4	197	46.3	196	46.6	197	46.4	197	46.3
445.gobmk	505	20.8	505	20.8	505	20.8	472	22.2	472	22.2	471	22.3
456.hmmer	221	42.2	221	42.2	221	42.2	221	42.2	221	42.2	221	42.2
458.sjeng	552	21.9	552	21.9	552	21.9	552	21.9	552	21.9	552	21.9
462.libquantum	49.6	418	49.6	418	49.6	418	49.6	418	49.6	418	49.6	418
464.h264ref	479	46.2	480	46.1	480	46.1	442	50.0	442	50.1	442	50.1
471.omnetpp	327	19.1	328	19.1	327	19.1	309	20.2	309	20.2	309	20.2
473.astar	333	21.1	333	21.1	333	21.1	333	21.1	333	21.1	333	21.1
483.xalancbmk	239	28.8	239	28.8	239	28.8	239	28.8	239	28.8	239	28.8

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

Platform Notes

```
Sysinfo program C:\SPEC12.1\Docs/sysinfo
$Rev: 6775 $ $Date::: 2011-08-16 #\$ \8787f7622badcf24e01c368b1db4377c
running on CltE06995A30C92 Thu Dec 22 05:45:44 2011
```

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 ~2800 Mhz
BIOS Version  : Intel Corp. BEH6110H.86A.0016.2011.0118.1128, 1/18/2011
Total Physical Memory: 1,956 MB
```

```
Trying 'wmic cpu get /value'
DeviceID     : CPU0
L2CacheSize  : 512
L3CacheSize  : 3072
MaxClockSpeed : 2800
```

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Platform Notes (Continued)

Name : Intel(R) Pentium(R) CPU G840 @ 2.80GHz
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

OMP_NUM_THREADS set to number of processors cores
KMP_AFFINITY set to granularity=fine,scatter
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 -Qvc9 -Qstd=c99

C++ benchmarks:

 icl -Qvc9

Base Portability Flags

400.perlbench: -DSPEC_CPU_P64 -DSPEC_CPU_WIN64_X64
 -DSPEC_CPU_NO_NEED_VA_COPY
401.bzip2: -DSPEC_CPU_P64
403.gcc: -DSPEC_CPU_P64 -DSPEC_CPU_WIN64
429.mcf: -DSPEC_CPU_P64
445.gobmk: -DSPEC_CPU_P64
456.hmmr: -DSPEC_CPU_P64
458.sjeng: -DSPEC_CPU_P64
462.libquantum: -DSPEC_CPU_P64
464.h264ref: -DSPEC_CPU_P64 -DWIN32 -DSPEC_CPU_NO_INTTYPES
471.omnetpp: -DSPEC_CPU_P64 -DSPEC_CPU_WIN64
473.astar: -DSPEC_CPU_P64
483.xalancbmk: -DSPEC_CPU_P64 -Qoption_cpp, --no_wchar_t_keyword



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Base Optimization Flags

C benchmarks:

```
-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel  
-Qauto-ilp32 /F512000000
```

C++ benchmarks:

```
-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features  
-Qauto-ilp32 /F5120000000 shlw64M.lib  
-link /FORCE:MULTIPLE
```

Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

Peak Compiler Invocation

C benchmarks:

```
icl -Qvc9 -Qstd=c99
```

C++ benchmarks:

```
icl -Qvc9
```

Peak Portability Flags

Same as Base Portability Flags

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  
-Qauto-ilp32 /F5120000000 shlw64M.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  
-Qauto-ilp32 /F512000000
```

```
403.gcc: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qauto-ilp32 /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 -Qauto-ilp32
/F512000000

456.hmmr: basepeak = yes

458.sjeng: basepeak = yes

462.libquantum: basepeak = yes

464.h264ref: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll12 -Qansi-alias
-Qauto-ilp32 /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 -Qauto-ilp32 /F512000000
shlw64M.lib -link /FORCE:MULTIPLE

473.astar: basepeak = yes

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-ic12.1-official-windows.20120117.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-windows.20120117.xml>



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