



SPEC® CINT2006 Result

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Intel Corporation

Intel DH77KC motherboard (Intel Core i7-3770K)

SPECint®2006 = 54.4

SPECint_base2006 = 51.9

CPU2006 license: 13

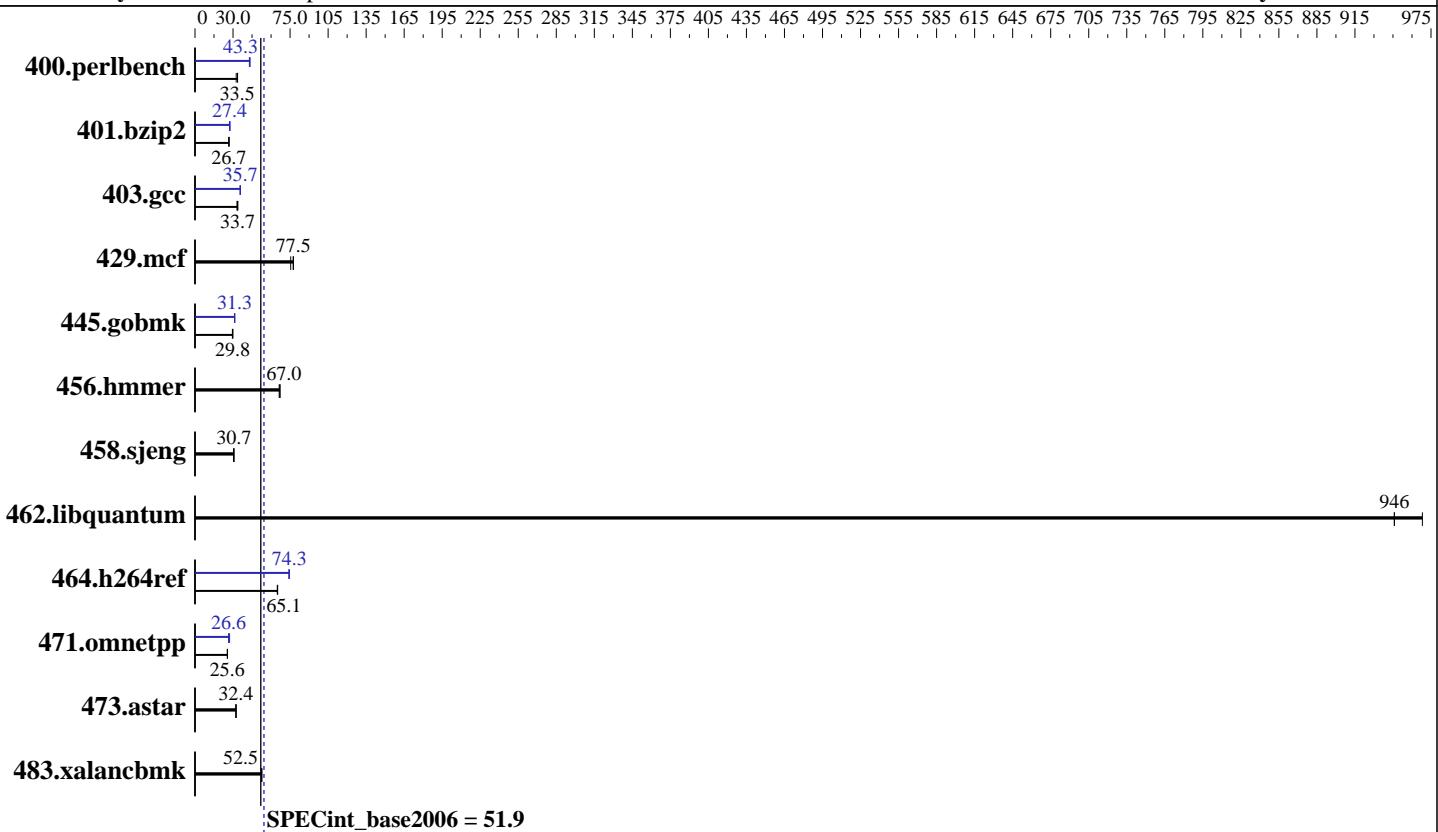
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: May-2014

Hardware Availability: May-2013

Software Availability: Oct-2013



Hardware

CPU Name: Intel Core i7-3770K
 CPU Characteristics: Intel Turbo Boost Technology up to 3.90 GHz
 CPU MHz: 3500
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
 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: 8 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 HDD 7200 RPM
 Other Hardware: None

Software

Operating System: Microsoft Windows 8.1 Pro
 Compiler: 6.3.9600 N/A Build 9600
 C/C++: Version 14.0.1.139 of Intel C++ Studio XE for Windows;
 Libraries: Version 16.00.30319.01 of Microsoft Visual Studio 2010 Professional SP1
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32/64-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						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	300	32.5	291	33.6	291	33.5	228	42.9	226	43.3	225	43.3
401.bzip2	362	26.7	361	26.7	359	26.9	355	27.2	352	27.4	349	27.6
403.gcc	243	33.1	239	33.7	239	33.7	225	35.7	225	35.7	225	35.7
429.mcf	121	75.5	118	77.5	118	77.6	121	75.5	118	77.5	118	77.6
445.gobmk	356	29.5	352	29.8	352	29.8	335	31.3	335	31.3	335	31.3
456.hmmer	141	66.4	139	67.0	139	67.0	141	66.4	139	67.0	139	67.0
458.sjeng	397	30.5	394	30.7	394	30.7	397	30.5	394	30.7	394	30.7
462.libquantum	21.9	946	21.9	946	21.4	968	21.9	946	21.9	946	21.4	968
464.h264ref	341	64.9	340	65.1	339	65.2	298	74.2	298	74.3	298	74.3
471.omnetpp	244	25.6	244	25.6	245	25.5	229	27.3	235	26.6	235	26.6
473.astar	217	32.4	218	32.2	217	32.4	217	32.4	218	32.2	217	32.4
483.xalancbmk	131	52.5	131	52.8	132	52.5	131	52.5	131	52.8	132	52.5

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)

Platform Notes

Sysinfo program C:\SPEC14.0\Docs\sysinfo
\$Rev: 6775 \$ \$Date::: 2011-08-16 #\$ \8787f7622badcf24e01c368b1db4377c
running on IVB9600 Thu May 29 13:09:59 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  : DH77KC_
Processor(s)  : 1 Processor(s) Installed.
[01]: Intel64 Family 6 Model 58 Stepping 8 GenuineIntel ~3501 Mhz
BIOS Version  : Intel Corp. KCH7710H.86A.0110.2013.0513.1018, 5/13/2013
Total Physical Memory: 8,089 MB
```

```
Trying 'wmic cpu get /value'
DeviceID     : CPU0
```

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Platform Notes (Continued)

```
L2CacheSize      : 1024  
L3CacheSize      : 8192  
MaxClockSpeed   : 3501  
Name            : Intel(R) Core(TM) i7-3770K CPU @ 3.50GHz  
NumberOfCores    : 4  
NumberOfLogicalProcessors: 8
```

(End of data from sysinfo program)

BIOS: SATA mode set to RAID

Windows Disk Driver: Intel Rapid Storage Technology 12.9.0.1001

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 -Qvc10 -Qstd=c99
```

C++ benchmarks:

```
icl -Qvc10
```

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.hmmmer: -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
```

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Base Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_P64 -Qoption_cpp, --no_wchar_t_keyword

Base Optimization Flags

C benchmarks:

```
-QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel -Qauto-ilp32
/F512000000
```

C++ benchmarks:

```
-QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
-Qauto-ilp32 /F512000000 shlw64M.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

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

```
400.perlbench: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo
-O3 -Qprec-div- -Qansi-alias -Qopt-prefetch -Qauto-ilp32
/F512000000 shlw64M.lib
-link /FORCE:MULTIPLE
```

```
401.bzip2: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo
-O3 -Qprec-div- -Qopt-prefetch -Qansi-alias -Qauto-ilp32
/F512000000
```

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Peak Optimization Flags (Continued)

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

429.mcf: basepeak = yes

445.gobmk: -QxAVX(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: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo
-O3 -Qprec-div- -Qunroll2 -Qansi-alias -Qauto-ilp32
/F512000000

C++ benchmarks:

471.omnetpp: -QxAVX(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-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 other inquiries, please contact webmaster@spec.org.

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