SPEC® CINT2006 Result

Intel Corporation

Intel DH67BLB3 Motherboard (Intel Core i5-2390T)

$SPECint®2006 =$ 39.6

$SPECint\_base2006 =$ 35.6

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

Test date: Jul-2011
Hardware Availability: Mar-2011
Software Availability: Apr-2011

Benchmark	base	peak
400.perlbench	26.9	33.8
401.bzip2	21.1	22.0
403.gcc	26.2	27.8
429.mcf	43.6	43.5
445.gobmk	20.5	26.2
456.hmmer	50.8	50.1
458.sjeng	27.3	
462.libquantum	433	
464.h264ref	33.2	61.6
471.omnetpp	22.1	24.0
473.astar	24.9	
483.xalancbmk	28.8	

SPECint_base2006 = 35.6
SPECint2006 = 39.6

Hardware

CPU Name:	Intel Core i5-2390T
CPU Characteristics:	Intel Turbo Boost Technology up to 3.5 GHz
CPU MHz:	2700
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 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:	3 MB I+D on chip per chip
Other Cache:	None
Memory:	4 GB (2 x 2 GB 2Rx8 PC3-10600U-9)
Disk Subsystem:	Seagate 1 TB SATA, 7200 RPM
Other Hardware:	None

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:	Yes
File System:	NTFS
System State:	Default
Base Pointers:	32/64-bit
Peak Pointers:	32/64-bit
Other Software:	SmartHeap Library Version 9.01 from http://www.microquill.com/

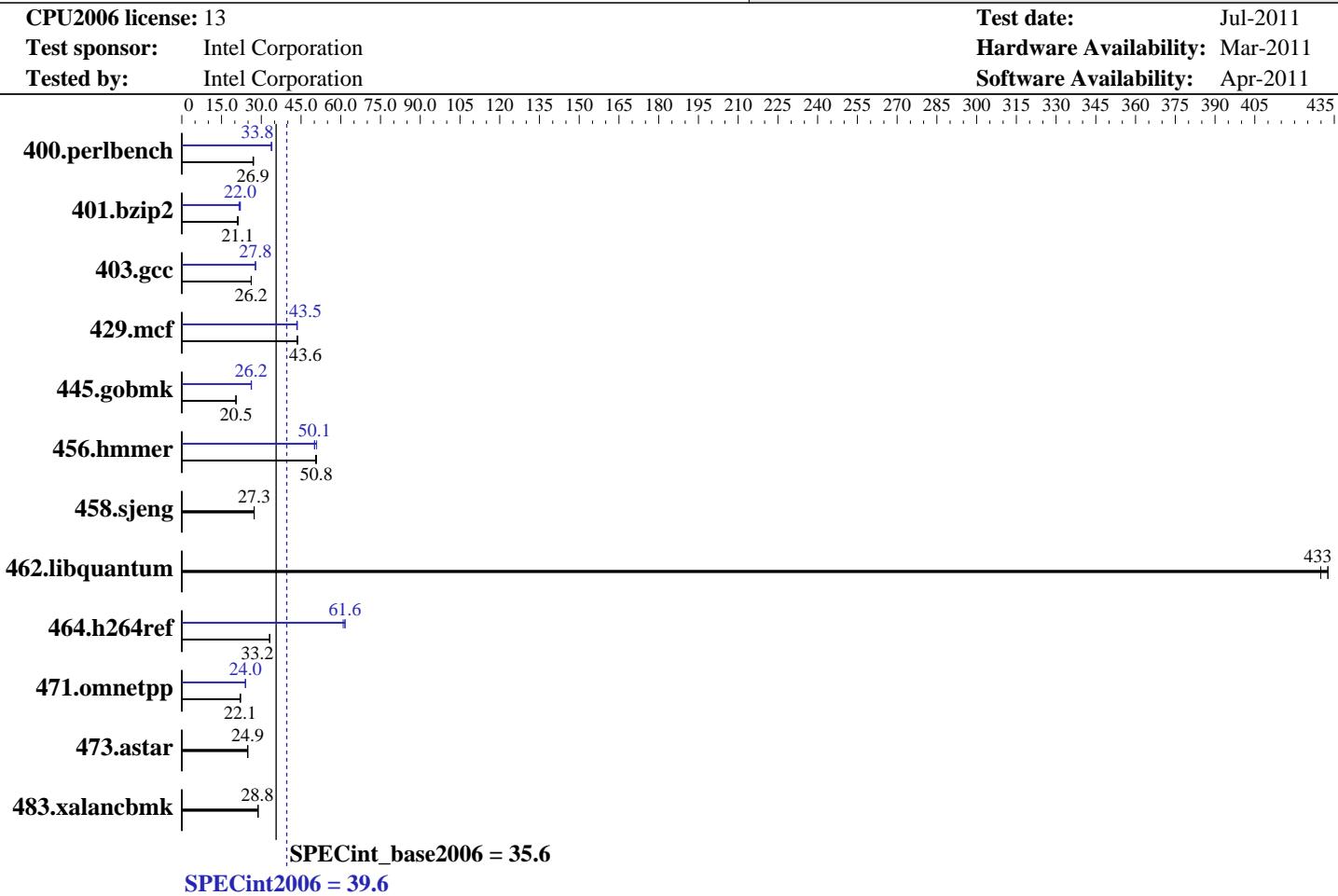# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

Intel DH67BLB3 Motherboard (Intel Core i5-2390T)

SPECint2006 =	39.6
SPECint_base2006 =	35.6

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

Test date: Jul-2011
Hardware Availability: Mar-2011
Software Availability: Apr-2011

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	363	26.9	**363**	**26.9**	361	27.1	289	33.8	287	34.0	**289**	**33.8**
401.bzip2	460	21.0	452	21.3	**458**	**21.1**	**439**	**22.0**	446	21.6	437	22.1
403.gcc	307	26.2	**307**	**26.2**	307	26.2	**290**	**27.8**	289	27.8	290	27.8
429.mcf	209	43.6	209	43.7	**209**	**43.6**	210	43.4	**210**	**43.5**	209	43.6
445.gobmk	**513**	**20.5**	513	20.4	512	20.5	398	26.3	401	26.2	**400**	**26.2**
456.hmmer	**184**	**50.8**	185	50.5	184	50.8	**186**	**50.1**	186	50.1	183	50.9
458.sjeng	444	27.3	**444**	**27.3**	444	27.3	444	27.3	**444**	**27.3**	444	27.3
462.libquantum	47.9	433	**47.9**	**433**	48.2	430	47.9	433	**47.9**	**433**	48.2	430
464.h264ref	668	33.1	**667**	**33.2**	667	33.2	359	61.6	**359**	**61.6**	364	60.9
471.omnetpp	283	22.1	282	22.1	**283**	**22.1**	**260**	**24.0**	260	24.1	260	24.0
473.astar	283	24.8	282	24.9	**282**	**24.9**	283	24.8	282	24.9	**282**	**24.9**
483.xalancbmk	240	28.8	241	28.7	**240**	**28.8**	240	28.8	241	28.7	**240**	**28.8**

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
Tested systems can be used with Shin-G ATX case,
PC Power and Cooling 1200W power supply
OMP_NUM_THREADS set to number of processors cores
KMP_AFFINITY set to granularity=fine,scatter
```

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.hmmer: -DSPEC_CPU_P64
    458.sjeng: -DSPEC_CPU_P64
```

SPEC CINT2006 Result

Intel Corporation

Intel DH67BLB3 Motherboard (Intel Core i5-2390T)

SPECint2006 =   39.6

SPECint_base2006 =   35.6

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2011

Hardware Availability: Mar-2011

Software Availability: Apr-2011

Base Portability Flags (Continued)

```
  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
```

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 -Qvc9 -Qstd=c99
```

C++ benchmarks:
```
    icl -Qvc9
```

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
```

Continued on next page

Intel Corporation

Intel DH67BLB3 Motherboard (Intel Core i5-2390T)

$SPECint2006 = $ 39.6

$SPECint_base2006 = $ 35.6

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

Test date: Jul-2011
Hardware Availability: Mar-2011
Software Availability: Apr-2011

Peak Optimization Flags (Continued)

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

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

429.mcf: `-QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qauto-ilp32`
`/F512000000`

445.gobmk: `-QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo`
`-O2 -Qprec-div- -Qansi-alias -Qauto-ilp32 /F512000000`

456.hmmer: `-QxAVX -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias`
`-Qauto-ilp32 /F512000000`

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-ic12-winx64-revB.20110808.html

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

Intel DH67BLB3 Motherboard (Intel Core i5-2390T)

SPECint2006 = 39.6

SPECint_base2006 = 35.6

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

Test date: Jul-2011
Hardware Availability: Mar-2011
Software Availability: Apr-2011

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic12-winx64-revB.20110808.xml

SPEC and SPECint are registered trademarks of the Standard Performance
Evaluation Corporation. All other brand and product names appearing in
this result are trademarks or registered trademarks of their respective
holders.

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

Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 23:43:13 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 2 August 2011.