



# SPEC® CINT2006 Result

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## Intel Corporation

Intel DX58SO2 Motherboard (Intel Core i7-975 Extreme Edition)

SPECint®2006 = 40.8

SPECint\_base2006 = 38.5

CPU2006 license: 13

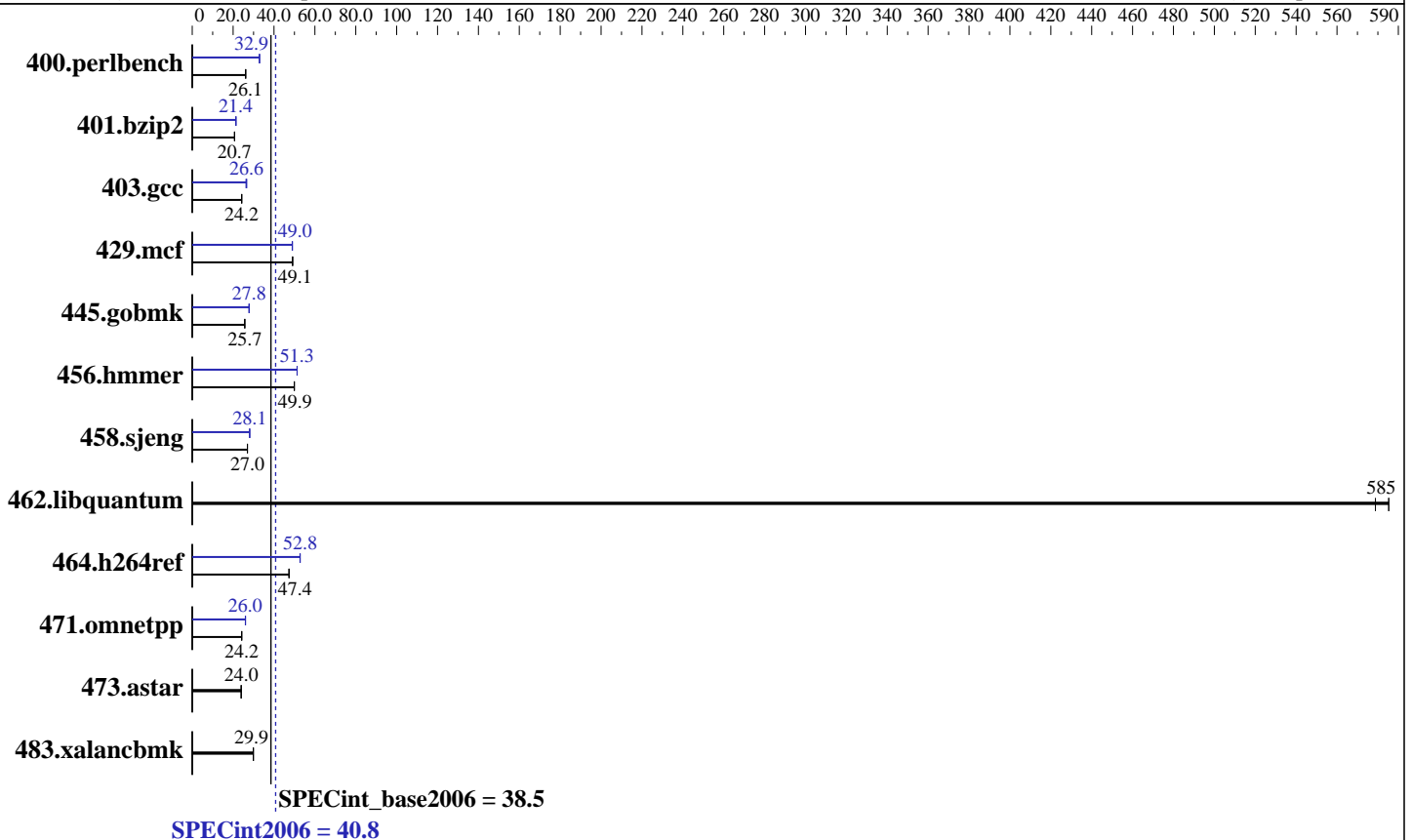
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2011

Hardware Availability: Mar-2011

Software Availability: Apr-2011



### Hardware

CPU Name: Intel Core i7-975 Extreme Edition  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz  
 CPU MHz: 3333  
 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: 12 GB (3 x 4 GB 2Rx8 PC3-8600U-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 Intel64 Version 12.0.3.163 Build 20110217  
 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/>



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	374	26.1	<b><u>374</u></b>	<b><u>26.1</u></b>	373	26.2	297	32.9	297	32.9	<b><u>297</u></b>	<b><u>32.9</u></b>
401.bzip2	467	20.7	<b><u>467</u></b>	<b><u>20.7</u></b>	467	20.7	452	21.3	<b><u>451</u></b>	<b><u>21.4</u></b>	451	21.4
403.gcc	332	24.2	<b><u>333</u></b>	<b><u>24.2</u></b>	333	24.2	306	26.3	303	26.6	<b><u>303</u></b>	<b><u>26.6</u></b>
429.mcf	186	49.1	186	49.1	<b><u>186</u></b>	<b><u>49.1</u></b>	187	48.9	<b><u>186</u></b>	<b><u>49.0</u></b>	186	49.0
445.gobmk	408	25.7	<b><u>409</u></b>	<b><u>25.7</u></b>	409	25.7	378	27.8	<b><u>377</u></b>	<b><u>27.8</u></b>	377	27.9
456.hmmer	187	49.9	<b><u>187</u></b>	<b><u>49.9</u></b>	187	50.0	182	51.3	<b><u>182</u></b>	<b><u>51.3</u></b>	182	51.3
458.sjeng	<b><u>448</u></b>	<b><u>27.0</u></b>	448	27.0	448	27.0	431	28.1	<b><u>430</u></b>	<b><u>28.1</u></b>	430	28.1
462.libquantum	35.8	579	35.4	585	<b><u>35.4</u></b>	<b><u>585</u></b>	35.8	579	35.4	585	<b><u>35.4</u></b>	<b><u>585</u></b>
464.h264ref	467	47.4	<b><u>467</u></b>	<b><u>47.4</u></b>	468	47.3	419	52.8	<b><u>419</u></b>	<b><u>52.8</u></b>	420	52.7
471.omnetpp	<b><u>258</u></b>	<b><u>24.2</u></b>	258	24.2	258	24.2	240	26.1	<b><u>240</u></b>	<b><u>26.0</u></b>	240	26.0
473.astar	293	24.0	<b><u>293</u></b>	<b><u>24.0</u></b>	294	23.9	293	24.0	<b><u>293</u></b>	<b><u>24.0</u></b>	294	23.9
483.xalancbmk	<b><u>231</u></b>	<b><u>29.9</u></b>	230	29.9	231	29.9	<b><u>231</u></b>	<b><u>29.9</u></b>	230	29.9	231	29.9

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  
 System was configured with an ATI HD5770 discrete graphics card

## 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

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## Base Portability Flags (Continued)

```

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

```

## 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 /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:

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**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)

400.perlbench: -QxSSE4.2(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: -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

429.mcf: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch  
-Qauto-ilp32 /F512000000

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: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
-Qauto-ilp32 /F512000000

458.sjeng: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll4 -Qauto-ilp32 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -QxSSE4.2(pass 2) -Qprof\_gen(pass 1) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll2 -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



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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>

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>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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