SPEC® CINT2006 Result
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Intel Corporation

Intel DH61WW motherboard (Intel Core i5-2400)

$SPECint®2006 =$ 42.0

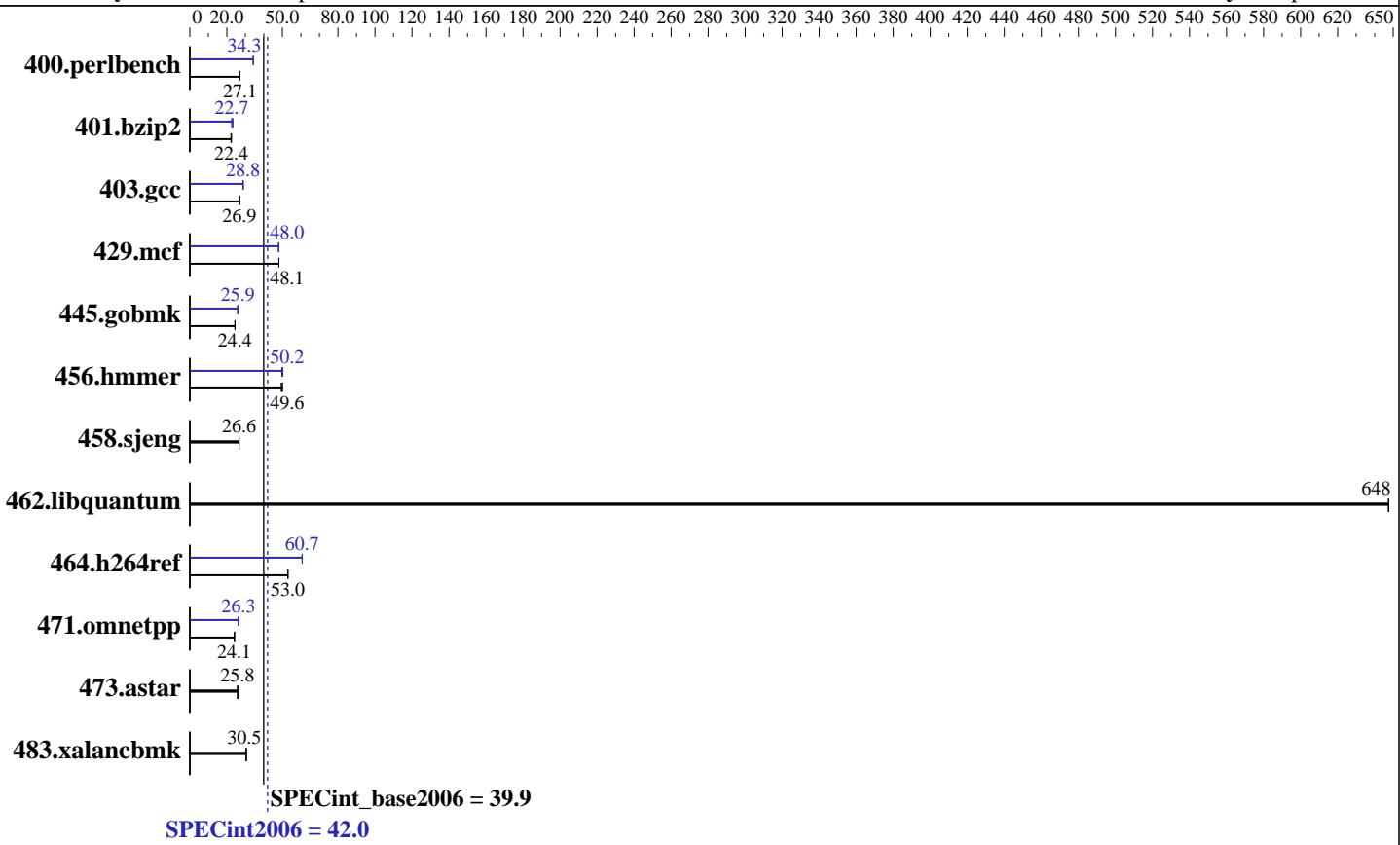$SPECint\_base2006 =$ 39.9

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

Test date: Oct-2011
Hardware Availability: Jan-2011
Software Availability: Apr-2011

400.perlbench	34.3 / 27.1
401.bzip2	22.7 / 22.4
403.gcc	28.8 / 26.9
429.mcf	48.0 / 48.1
445.gobmk	25.9 / 24.4
456.hmmer	50.2 / 49.6
458.sjeng	26.6
462.libquantum	648
464.h264ref	60.7 / 53.0
471.omnetpp	26.3 / 24.1
473.astar	25.8
483.xalancbmk	30.5

SPECint_base2006 = 39.9
SPECint2006 = 42.0

Hardware

CPU Name:	Intel Core i5-2400
CPU Characteristics:	Intel Turbo Boost Technology up to 3.4 GHz
CPU MHz:	3100
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 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:	6 MB I+D on chip per chip
Other Cache:	None
Memory:	4 GB (2 x 2 GB 2Rx8 PC3-10600U-9)
Disk Subsystem:	Seagate 250GB HDD, 7200 rpm
Other Hardware:	None

Software

Operating System:	Windows 7 Ultimate SP1 (64-bit)
Compiler:	C/C++: Version 12.0.3.176 of Intel C++ Studio XE for Windows; Libraries: Version 15.00.30729.01 of Microsoft Visual Studio 2008 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 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	361	27.0	**361**	**27.1**	361	27.1	285	34.3	**285**	**34.3**	285	34.3
401.bzip2	436	22.2	430	22.5	**431**	**22.4**	**425**	**22.7**	425	22.7	414	23.3
403.gcc	300	26.9	**300**	**26.9**	300	26.9	**280**	**28.8**	279	28.8	280	28.8
429.mcf	190	48.1	**190**	**48.1**	190	48.1	190	47.9	190	48.0	**190**	**48.0**
445.gobmk	429	24.4	429	24.4	**429**	**24.4**	404	25.9	405	25.9	**404**	**25.9**
456.hmmer	189	49.4	186	50.1	**188**	**49.6**	186	50.2	188	49.7	**186**	**50.2**
458.sjeng	**455**	**26.6**	455	26.6	455	26.6	**455**	**26.6**	455	26.6	455	26.6
462.libquantum	32.0	648	**32.0**	**648**	32.0	648	32.0	648	**32.0**	**648**	32.0	648
464.h264ref	418	52.9	**417**	**53.0**	417	53.0	364	60.7	**364**	**60.7**	364	60.7
471.omnetpp	**259**	**24.1**	260	24.1	259	24.1	238	26.3	**238**	**26.3**	238	26.2
473.astar	**272**	**25.8**	272	25.9	272	25.8	**272**	**25.8**	272	25.9	272	25.8
483.xalancbmk	227	30.5	**227**	**30.5**	227	30.4	227	30.5	**227**	**30.5**	227	30.4

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

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
```

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
```

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Base Portability Flags (Continued)

```
      429.mcf: -DSPEC_CPU_P64
    445.gobmk: -DSPEC_CPU_P64
    456.hmmer: -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
```

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
```

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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

         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
```

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The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic12-winx64-revC.20111012.html
http://www.spec.org/cpu2006/flags/Intel-Windows-Platform-Settings-revC.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic12-winx64-revC.20111012.xml
http://www.spec.org/cpu2006/flags/Intel-Windows-Platform-Settings-revC.xml

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

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