SPEC® CINT2006 Result
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Intel Corporation

Intel DH61WW motherboard (Intel Core i3-2120)

SPECint®2006 = 38.4

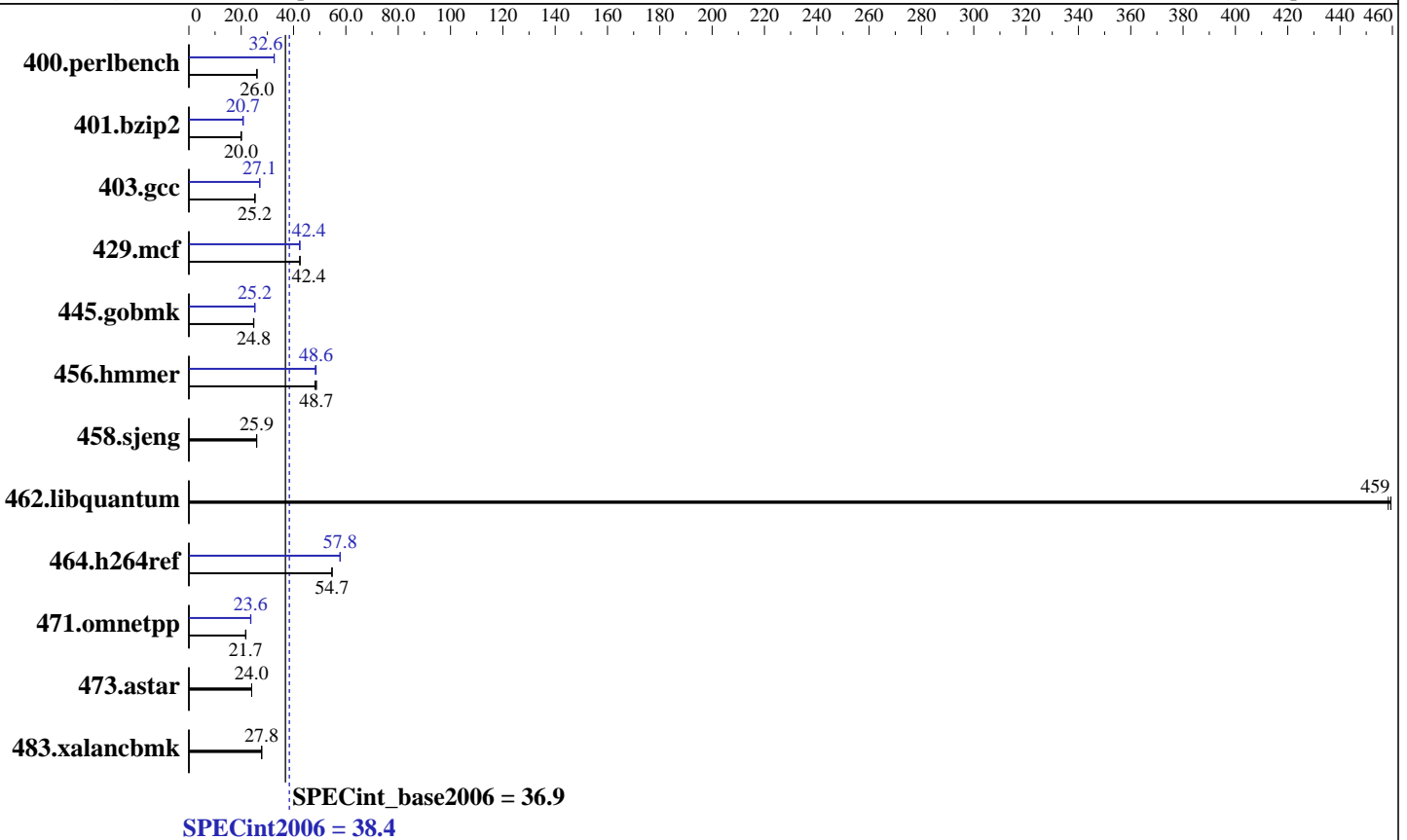SPECint_base2006 = 36.9

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

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

Benchmark	base	peak
400.perlbench	26.0	32.6
401.bzip2	20.0	20.7
403.gcc	25.2	27.1
429.mcf	42.4	42.4
445.gobmk	24.8	25.2
456.hmmer	48.7	48.6
458.sjeng	25.9	
462.libquantum		459
464.h264ref	54.7	57.8
471.omnetpp	21.7	23.6
473.astar	24.0	
483.xalancbmk	27.8	

SPECint_base2006 = 36.9
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Hardware

CPU Name:	Intel Core i3-2120
CPU Characteristics:	
CPU MHz:	3300
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 2Rx4 PC3-10600U-9)
Disk Subsystem:	1 TB Seagate SATA, 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows 7 Ultimate (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	375	26.0	**375**	**26.0**	376	26.0	**300**	**32.6**	300	32.6	300	32.6
401.bzip2	485	19.9	**483**	**20.0**	479	20.1	**465**	**20.7**	463	20.8	468	20.6
403.gcc	320	25.2	**319**	**25.2**	318	25.3	297	27.1	**298**	**27.1**	298	27.0
429.mcf	**215**	**42.4**	215	42.4	215	42.5	215	42.4	216	42.3	**215**	**42.4**
445.gobmk	424	24.7	**424**	**24.8**	424	24.8	417	25.2	417	25.2	**417**	**25.2**
456.hmmer	192	48.7	194	48.2	**192**	**48.7**	192	48.6	**192**	**48.6**	193	48.3
458.sjeng	**468**	**25.9**	468	25.9	468	25.9	**468**	**25.9**	468	25.9	468	25.9
462.libquantum	45.2	458	45.1	459	**45.1**	**459**	45.2	458	45.1	459	**45.1**	**459**
464.h264ref	405	54.7	**405**	**54.7**	405	54.7	383	57.8	383	57.8	**383**	**57.8**
471.omnetpp	288	21.7	**287**	**21.7**	287	21.8	264	23.7	265	23.6	**265**	**23.6**
473.astar	293	24.0	**292**	**24.0**	292	24.0	293	24.0	**292**	**24.0**	292	24.0
483.xalancbmk	248	27.8	248	27.8	**248**	**27.8**	248	27.8	248	27.8	**248**	**27.8**

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

```
    Binaries compiled on a system with 1x Intel Core i7-860 CPU
    + 8GB memory using Windows 7 Enterprise 64-bit
    OMP_NUM_THREADS set to number of processor 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
```

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Base Portability Flags (Continued)

```
  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
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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