



SPEC® CINT2006 Result

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Intel Corporation

SPECint®_rate2006 = 60.5

Intel DH57JG Motherboard (Intel Core i5-650)

SPECint_rate_base2006 = 58.1

CPU2006 license: 13

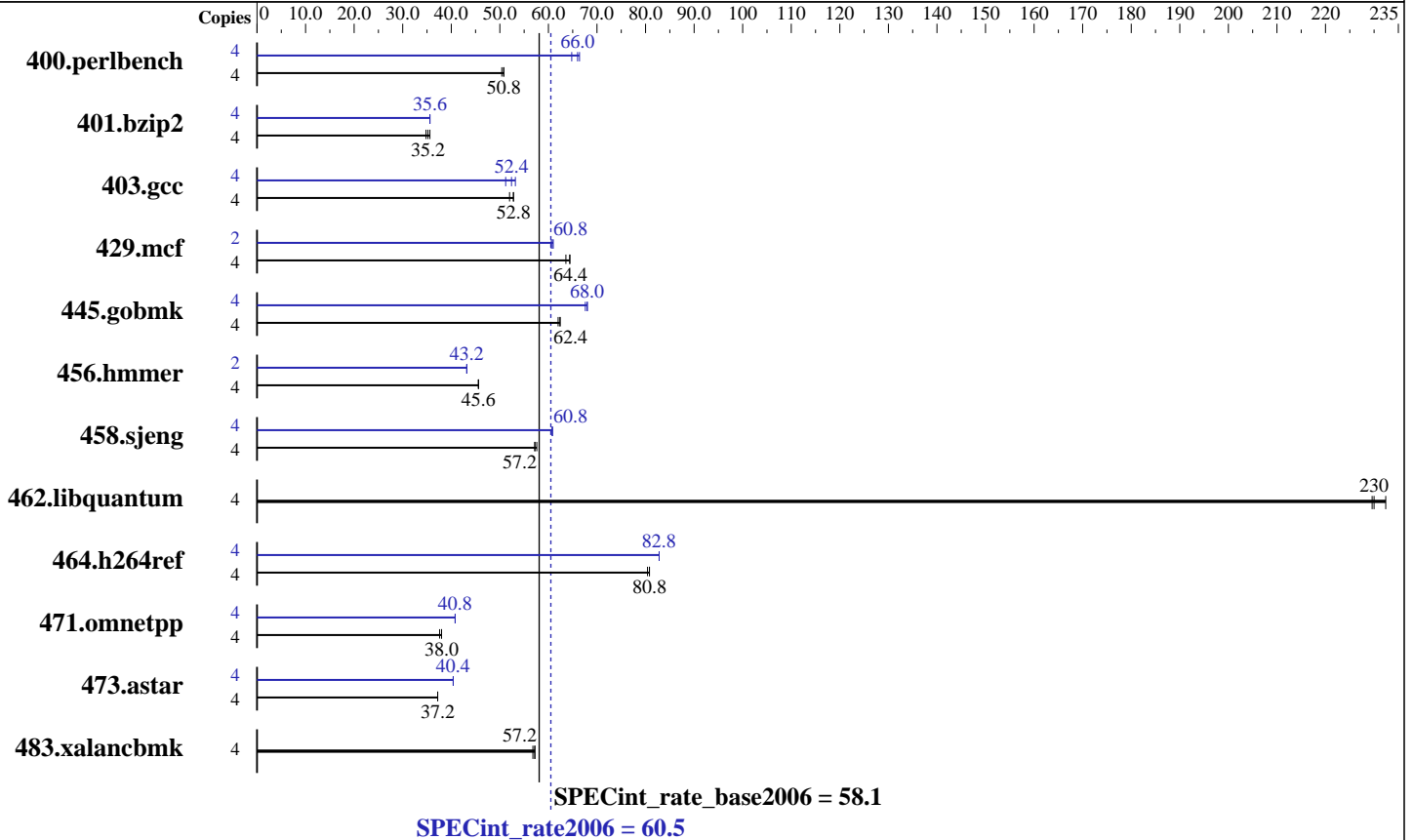
Test date: Sep-2010

Test sponsor: Intel Corporation

Hardware Availability: Jan-2010

Tested by: Intel Corporation

Software Availability: Sep-2009



Hardware

CPU Name: Intel Core i5-650
 CPU Characteristics: Intel Turbo Boost Technology up to 3.46 GHz
 CPU MHz: 3200
 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: 4 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 Professional 11.1 for IA32
 Build 20090903 Package ID: w_cproc_p_11.1.045
 Microsoft Visual Studio 2008 Professional SP1 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None
 SmartHeap Library Version 8.1 from <http://www.microquill.com/>



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Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	778	50.4	<u>771</u>	<u>50.8</u>	770	50.8	4	588	66.4	<u>591</u>	<u>66.0</u>	604	64.8
401.bzip2	4	1112	34.8	<u>1093</u>	<u>35.2</u>	1090	35.6	4	1087	35.6	<u>1090</u>	<u>35.6</u>	1090	35.6
403.gcc	4	611	52.8	619	52.0	<u>612</u>	<u>52.8</u>	4	<u>616</u>	<u>52.4</u>	629	51.2	603	53.2
429.mcf	4	<u>567</u>	<u>64.4</u>	565	64.4	575	63.6	2	301	60.6	299	61.0	<u>300</u>	<u>60.8</u>
445.gobmk	4	676	62.0	674	62.4	<u>675</u>	<u>62.4</u>	4	<u>618</u>	<u>68.0</u>	621	67.6	617	68.0
456.hammer	4	815	45.6	815	45.6	<u>815</u>	<u>45.6</u>	2	<u>432</u>	<u>43.2</u>	432	43.2	432	43.2
458.sjeng	4	847	57.2	<u>846</u>	<u>57.2</u>	841	57.6	4	794	60.8	796	60.8	<u>795</u>	<u>60.8</u>
462.libquantum	4	<u>360</u>	<u>230</u>	361	230	357	232	4	<u>360</u>	<u>230</u>	361	230	357	232
464.h264ref	4	1096	80.8	1099	80.4	<u>1096</u>	<u>80.8</u>	4	<u>1069</u>	<u>82.8</u>	1069	82.8	1067	82.8
471.omnetpp	4	663	37.6	659	38.0	<u>659</u>	<u>38.0</u>	4	613	40.8	612	40.8	<u>612</u>	<u>40.8</u>
473.astar	4	756	37.2	<u>756</u>	<u>37.2</u>	757	37.2	4	693	40.4	<u>694</u>	<u>40.4</u>	696	40.4
483.xalancbmk	4	<u>484</u>	<u>57.2</u>	484	57.2	484	56.8	4	<u>484</u>	<u>57.2</u>	484	57.2	484	56.8

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

Submit Notes

The config file option 'submit' was used.

General Notes

Tested systems can be used with Shin-G ATX case,
PC Power and Cooling 1200W power supply

Base Compiler Invocation

C benchmarks:
icl -Qvc9 -Qstd=c99

C++ benchmarks:
icl -Qvc9

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DWIN32 -DSPEC_CPU_NO_INTTYPES
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword



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Base Optimization Flags

C benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

C++ benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
/F512000000 shlw32M.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

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DWIN32 -DSPEC_CPU_NO_INTTYPES
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Peak Optimization Flags

C benchmarks:

400.perlbench: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000 shlw32M.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
/F512000000

403.gcc: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

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Peak Optimization Flags (Continued)

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

445.gobmk: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmcr: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias
/F512000000

458.sjeng: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll4 /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 /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 /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE

473.astar: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias
-Qopt-ra-region-strategy=routine /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE

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-ic11.0-winx64-revA.20100302.02.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-winx64-revA.20100302.02.xml>



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

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