



SPEC® CINT2006 Result

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Intel Corporation

SPECint®_rate2006 = 106

Intel DP55KG motherboard (Intel Core i7-870)

SPECint_rate_base2006 = 101

CPU2006 license: 13

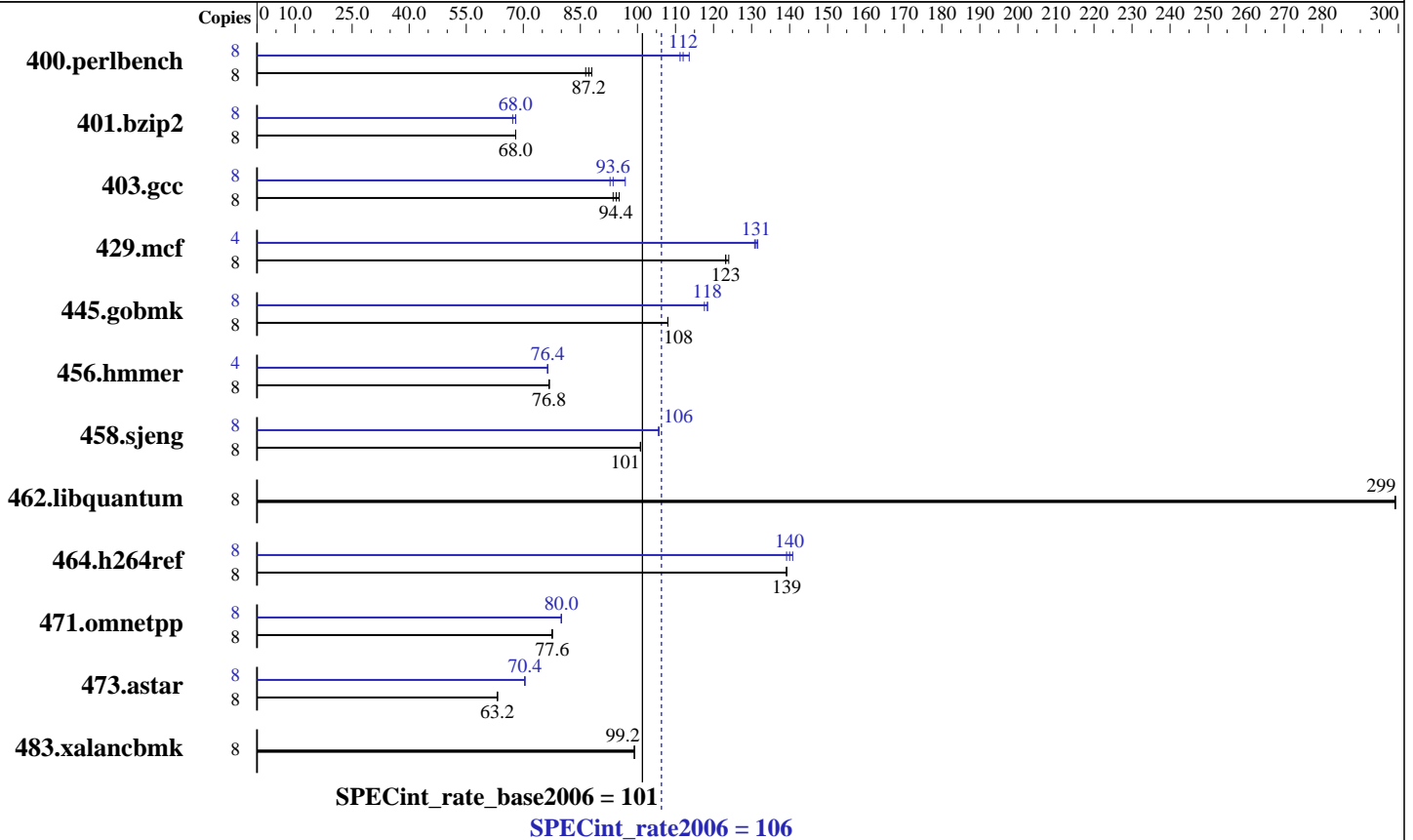
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jan-2010

Hardware Availability: Jun-2009

Software Availability: Oct-2009



Hardware

CPU Name: Intel Core i7-870
 CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz
 CPU MHz: 2933
 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: 4 GB (2x2GB Micron MT16JTF25664AZ-1G4 DDR3-1333 CL9)
 Disk Subsystem: Intel X25-M 80GB SSD
 Other Hardware: None

Software

Operating System: Windows Vista Ultimate w/ SP1 (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	8	891	88.0	901	86.4	<u>897</u>	<u>87.2</u>	8	689	114	701	111	<u>700</u>	<u>112</u>
401.bzip2	8	<u>1139</u>	<u>68.0</u>	1141	68.0	1138	68.0	8	1142	67.2	1141	68.0	<u>1142</u>	<u>68.0</u>
403.gcc	8	678	95.2	687	93.6	<u>680</u>	<u>94.4</u>	8	666	96.8	<u>689</u>	<u>93.6</u>	691	92.8
429.mcf	8	<u>591</u>	<u>123</u>	587	124	592	123	4	<u>278</u>	<u>131</u>	277	132	279	131
445.gobmk	8	779	108	<u>780</u>	<u>108</u>	780	108	8	709	118	714	118	<u>709</u>	<u>118</u>
456.hammer	8	969	76.8	<u>969</u>	<u>76.8</u>	973	76.8	4	<u>489</u>	<u>76.4</u>	489	76.4	489	76.4
458.sjeng	8	<u>961</u>	<u>101</u>	961	101	963	101	8	<u>918</u>	<u>106</u>	917	106	920	106
462.libquantum	8	554	299	554	299	<u>554</u>	<u>299</u>	8	554	299	554	299	<u>554</u>	<u>299</u>
464.h264ref	8	1269	139	1271	139	<u>1269</u>	<u>139</u>	8	<u>1266</u>	<u>140</u>	1257	141	1272	139
471.omnetpp	8	646	77.6	<u>647</u>	<u>77.6</u>	647	77.6	8	624	80.0	<u>624</u>	<u>80.0</u>	624	80.0
473.astar	8	893	63.2	892	63.2	<u>892</u>	<u>63.2</u>	8	<u>797</u>	<u>70.4</u>	796	70.4	797	70.4
483.xalanbmk	8	<u>558</u>	<u>99.2</u>	558	99.2	558	99.2	8	<u>558</u>	<u>99.2</u>	558	99.2	558	99.2

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.
Windows start command was used to bind copies to processors

General Notes

Tested systems can be used with Shin-G ATX case,
PC Power and Cooling 1200W power supply
System was configured with an ATI 5970 discrete graphics card

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.xalanbmk: -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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