SPEC® CINT2006 Result

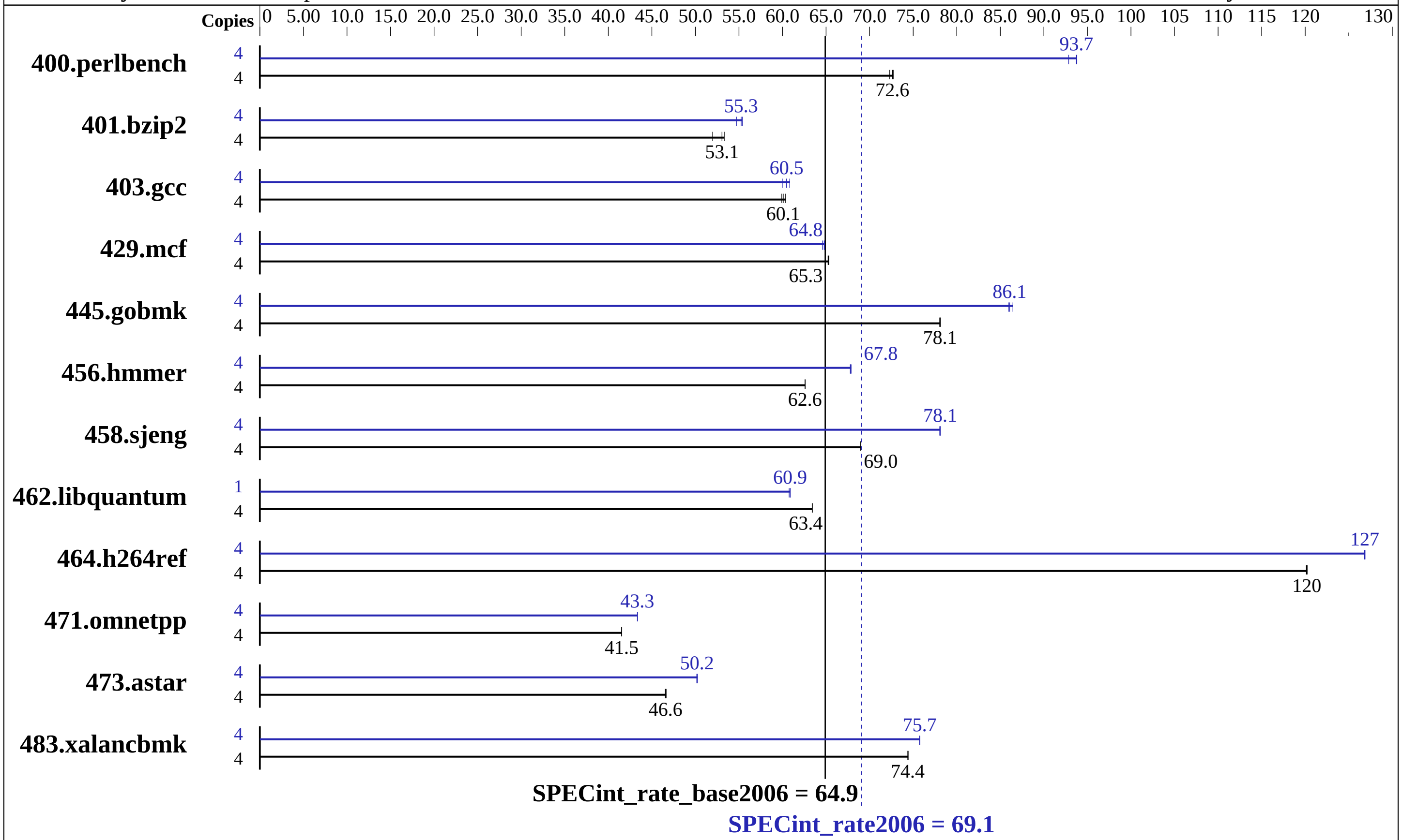
Intel Corporation

Asus P5E3 Deluxe (Intel Core 2 Extreme QX6850)

SPECint®_rate2006 = 69.1

SPECint_rate_base2006 = 64.9

CPU2006 license:	13	**Test date:**	Nov-2007
Test sponsor:	Intel Corporation	**Hardware Availability:**	Nov-2007
Tested by:	Intel Corporation	**Software Availability:**	Nov-2007



Hardware

CPU Name:	Intel Core 2 Extreme QX6850
CPU Characteristics:	3.00 GHz 1333 MHz FSB
CPU MHz:	3000
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:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1GB Corsair TWIN3X2048-1333C9DHX DDR3-1333 CL9)
Disk Subsystem:	Seagate 320GB NCQ SATA, 16MB cache, 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista64 Ultimate
Compiler:	Intel C++ Compiler for IA32 version 10.1 Build 20070913 Package ID: w_cc_p_10.1.011 Microsoft Visual Studio 2005 SP1 (for libraries)
Auto Parallel:	Yes
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	SmartHeap Library Version 8.1 from http://www.microquill.com/

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	**538**	**72.6**	537	72.7	540	72.3	4	421	92.8	**417**	**93.7**	417	93.8
401.bzip2	4	743	52.0	724	53.3	**728**	**53.1**	4	**699**	**55.3**	697	55.4	706	54.7
403.gcc	4	533	60.4	537	59.9	**536**	**60.1**	4	529	60.8	**533**	**60.5**	537	60.0
429.mcf	4	558	65.3	559	65.2	**559**	**65.3**	4	563	64.8	565	64.6	**563**	**64.8**
445.gobmk	4	537	78.1	**537**	**78.1**	538	78.0	4	488	85.9	**488**	**86.1**	485	86.4
456.hmmer	4	**596**	**62.6**	596	62.6	596	62.6	4	551	67.8	**550**	**67.8**	550	67.9
458.sjeng	4	**702**	**69.0**	701	69.0	702	69.0	4	**620**	**78.1**	620	78.1	620	78.0
462.libquantum	4	1307	63.4	1307	63.4	**1307**	**63.4**	1	**340**	**60.9**	341	60.8	340	60.9
464.h264ref	4	736	120	**737**	**120**	737	120	4	698	127	698	127	**698**	**127**
471.omnetpp	4	602	41.5	**602**	**41.5**	602	41.5	4	577	43.3	**577**	**43.3**	577	43.4
473.astar	4	**603**	**46.6**	603	46.5	602	46.6	4	560	50.2	**560**	**50.2**	559	50.2
483.xalancbmk	4	371	74.3	371	74.4	**371**	**74.4**	4	**364**	**75.7**	364	75.7	364	75.8

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, Antec NeoPower 480W power supply
Product description located as of 11/2007:
http://www.asus.com/products.aspx?l1=3&l2=11&l3=572&l4=0&model=1872&modelmenu=1
The system bus runs at 1333 MHz
System was configured with Asus EN8800GTX discrete graphics card
Binaries were built on Windows Vista32
The following VS 2005 SP1 updates were applied: KB926601 and KB932232
The start command with the /affinity switch was used to bind processes to cores
OMP_NUM_THREADS was set to number of logical processors as seen by the OS
KMP_AFFINITY was set to physical,0
submit was disabled for 462.libquantum at peak.
```

Base Compiler Invocation

C benchmarks:
`icl -Qvc8 -Qc99`

C++ benchmarks:
`icl -Qvc8`

Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`

Continued on next page

SPEC CINT2006 Result

Base Portability Flags (Continued)

464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`
483.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

Base Optimization Flags

C benchmarks:
```
-fast -Qvec-guard-write /F512000000
```

C++ benchmarks:
```
-fast -Qcxx_features /F512000000 shlw32m.lib
           -link /FORCE:MULTIPLE
```

Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks:
```
icl -Qvc8 -Qc99
```

C++ benchmarks:
```
icl -Qvc8
```

Peak Portability Flags

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

Peak Optimization Flags

C benchmarks:

400.perlbench: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qansi-alias -Qprefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

Continued on next page

Intel Corporation

Asus P5E3 Deluxe (Intel Core 2 Extreme QX6850)

SPECint_rate2006 = 69.1

SPECint_rate_base2006 = 64.9

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation
Test date: Nov-2007
Hardware Availability: Nov-2007
Software Availability: Nov-2007

Peak Optimization Flags (Continued)

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch /F512000000

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000

429.mcf: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -Qopt-multi-version-aggressive /F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 /F512000000

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always -Qparallel -Qpar-runtime-control /F512000000

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=block -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=routine -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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-ic10-ia32-intel64-linux-flags.20090714.09.html

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.09.xml`

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 14:27:09 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 27 November 2007.