SPEC® CINT2006 Result
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ASUSTeK Computer Inc.
(Test Sponsor: Intel Corporation)

Asus P6T Deluxe (Intel Core i7-950)

$SPECint®\_rate2006 =$ 120

$SPECint\_rate\_base2006 =$ 112

CPU2006 license: 13	**Test date:** Oct-2008
Test sponsor: Intel Corporation	**Hardware Availability:** Jun-2009
Tested by: Intel Corporation	**Software Availability:** Nov-2008

Benchmark results graph:

Benchmark	Copies	Peak	Base
400.perlbench	8	134	103
401.bzip2	8	77.6	78.4
403.gcc	8	96.0	94.4
429.mcf	4 / 8	129	123
445.gobmk	8	136	122
456.hmmer	8	92.8	91.2
458.sjeng	8	122	113
462.libquantum	8		342
464.h264ref	8	168	161
471.omnetpp	8	86.4	80.0
473.astar	8	80.8	72.0
483.xalancbmk	8		108

SPECint_rate_base2006 = 112

SPECint_rate2006 = 120

Hardware

CPU Name:	Intel Core i7-950
CPU Characteristics:	Intel Turbo Boost Technology up to 3.33 GHz
CPU MHz:	3066
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:	12 GB (6 x 2GB Samsung M378B5673DZ1-CF8 DDR3-1066 CL7)
Disk Subsystem:	80 GB Intel X-25M SATA Solid-State Drive
Other Hardware:	None

Software

Operating System:	Windows Vista Ultimate w/ SP1 (64-bit)
Compiler:	Intel C++ Compiler Professional 11.0 for IA32 Build 20080930 Package ID: w_cproc_p_11.0.054 Microsoft Visual Studio 2008 (for libraries)
Auto Parallel:	No
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/

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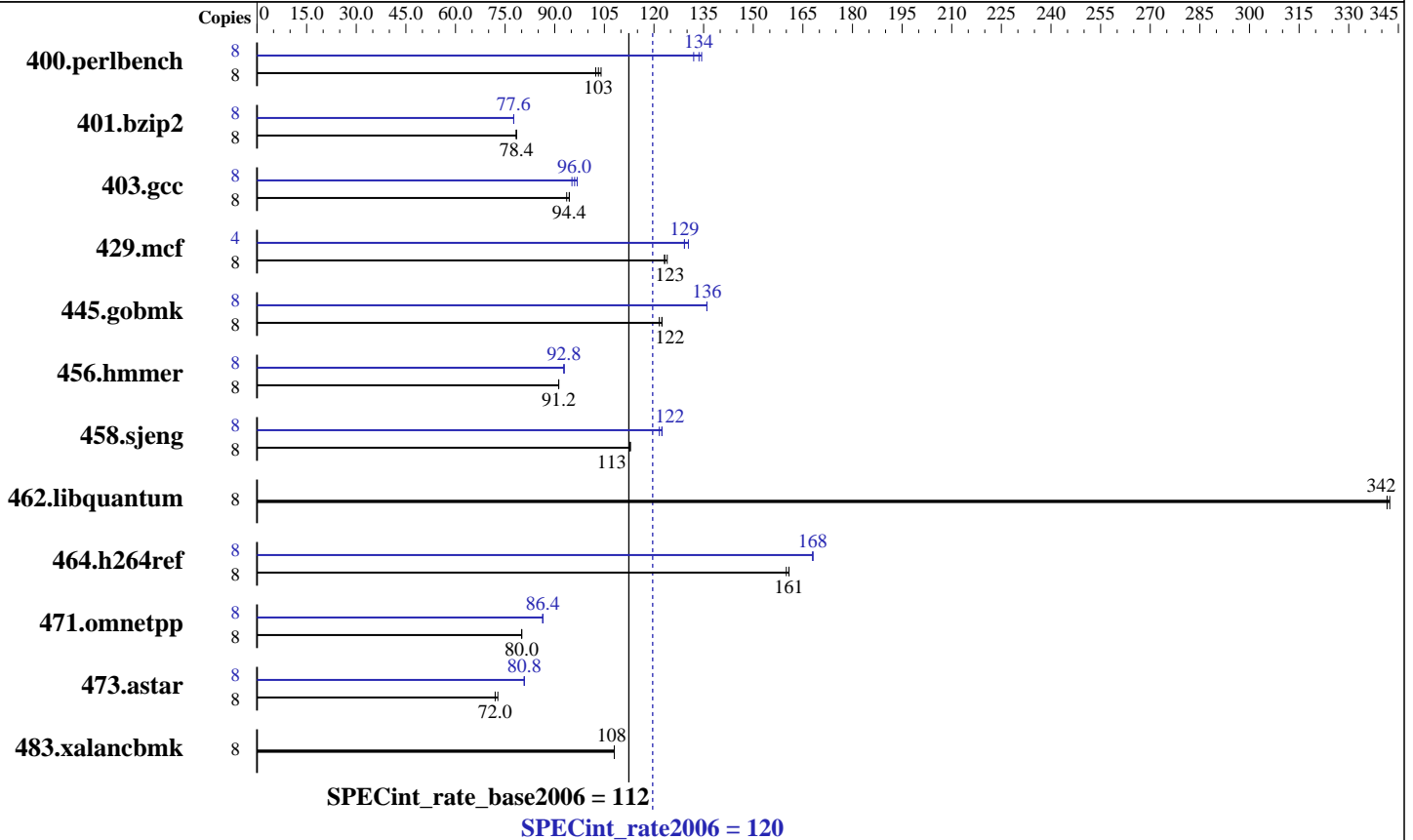SPECint_rate_base2006 = 112

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Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	**759**	**103**	752	104	762	102	8	582	134	**586**	**134**	591	132
401.bzip2	8	**988**	**78.4**	989	78.4	987	78.4	8	991	77.6	**993**	**77.6**	994	77.6
403.gcc	8	689	93.6	680	94.4	**685**	**94.4**	8	**673**	**96.0**	668	96.8	679	95.2
429.mcf	8	**591**	**123**	589	124	593	123	4	**282**	**129**	282	129	280	130
445.gobmk	8	686	122	689	122	**687**	**122**	8	**617**	**136**	617	136	617	136
456.hmmer	8	816	91.2	816	91.2	**816**	**91.2**	8	804	92.8	**804**	**92.8**	804	92.8
458.sjeng	8	857	113	**857**	**113**	859	113	8	794	122	793	122	**793**	**122**
462.libquantum	8	**485**	**342**	484	342	485	342	8	**485**	**342**	484	342	485	342
464.h264ref	8	1102	161	1105	160	**1102**	**161**	8	1054	168	1055	168	**1054**	**168**
471.omnetpp	8	626	80.0	626	80.0	**626**	**80.0**	8	**581**	**86.4**	581	86.4	581	86.4
473.astar	8	776	72.0	776	72.8	**776**	**72.0**	8	**692**	**80.8**	692	80.8	692	80.8
483.xalancbmk	8	510	108	**510**	**108**	510	108	8	510	108	**510**	**108**	510	108

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
System was configured with nVidia GTX 280 discrete graphics card
Binaries were built on Windows Vista Ultimate (32-bit)

Base Compiler Invocation

C benchmarks:
    icl -Qvc9 -Qc99

C++ benchmarks:
    icl -Qvc9

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
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 -Qc99
```

C++ benchmarks:
```
icl -Qvc9
```

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: -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.hmmer: `-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-win32-revA.20090710.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090710.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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