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

Asus P6T Deluxe (Intel Core i7-965 Extreme Edition)

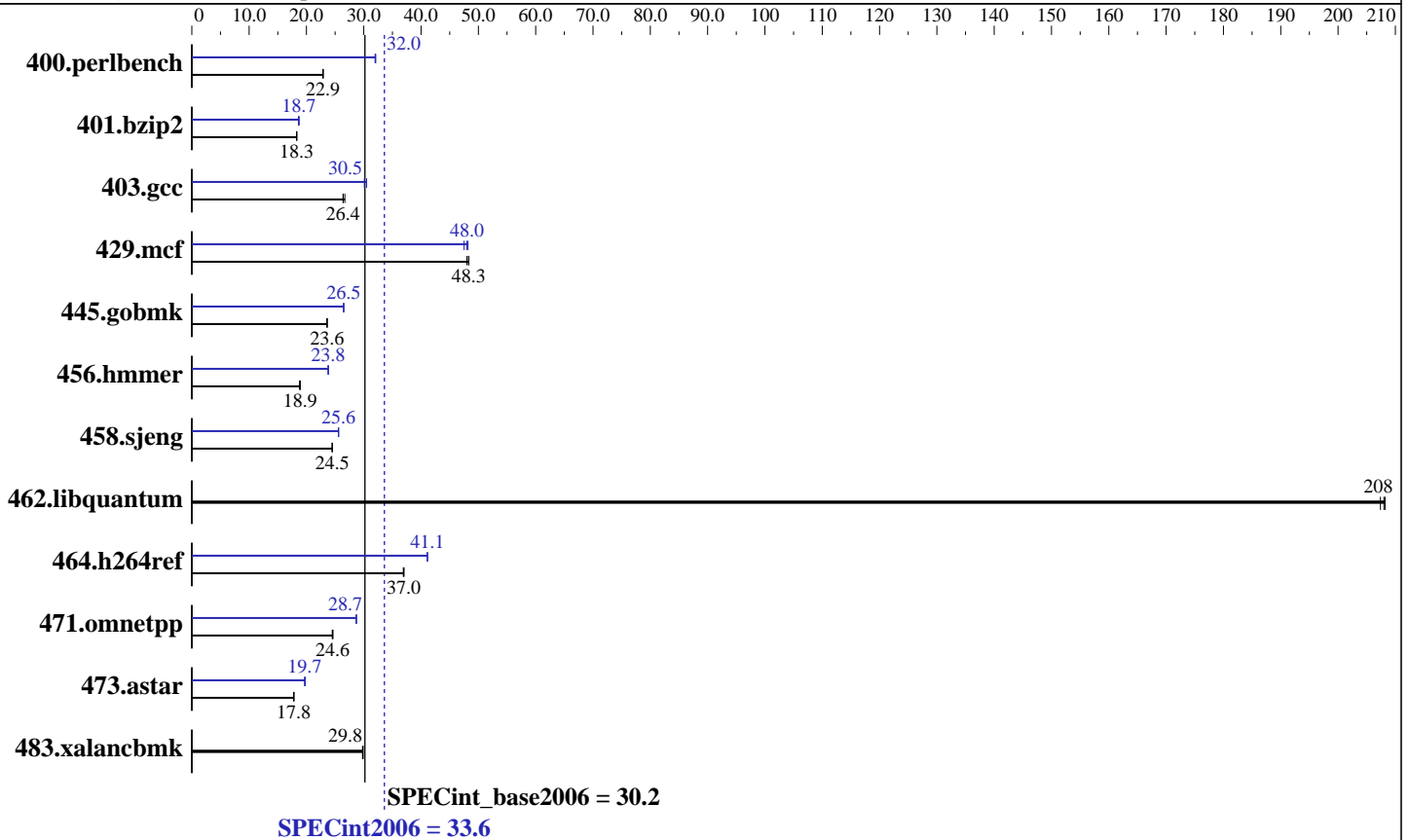SPECint®2006 =   33.6

SPECint_base2006 =   30.2

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Oct-2008

Hardware Availability: Nov-2008

Software Availability: Nov-2008

Benchmark	Peak	Base
400.perlbench	32.0	22.9
401.bzip2	18.7	18.3
403.gcc	30.5	26.4
429.mcf	48.0	48.3
445.gobmk	26.5	23.6
456.hmmer	23.8	18.9
458.sjeng	25.6	24.5
462.libquantum		208
464.h264ref	41.1	37.0
471.omnetpp	28.7	24.6
473.astar	19.7	17.8
483.xalancbmk		29.8

SPECint_base2006 = 30.2

SPECint2006 = 33.6

Hardware

CPU Name:	Intel Core i7-965 Extreme Edition
CPU Characteristics:	Intel Turbo Boost Technology up to 3.46 GHz
CPU MHz:	3200
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:	Yes
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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	426	22.9	426	22.9	**426**	**22.9**	305	32.0	305	32.1	**305**	**32.0**
401.bzip2	526	18.3	**526**	**18.3**	526	18.3	517	18.7	518	18.6	**517**	**18.7**
403.gcc	**305**	**26.4**	305	26.4	302	26.7	264	30.5	267	30.1	**264**	**30.5**
429.mcf	189	48.3	**189**	**48.3**	190	48.0	189	48.2	192	47.5	**190**	**48.0**
445.gobmk	444	23.6	444	23.6	**444**	**23.6**	396	26.5	395	26.5	396	26.5
456.hmmer	496	18.8	495	18.9	**495**	**18.9**	392	23.8	**392**	**23.8**	392	23.8
458.sjeng	494	24.5	494	24.5	**494**	**24.5**	472	25.6	472	25.6	**472**	**25.6**
462.libquantum	99.5	208	**99.6**	**208**	99.9	207	99.5	208	**99.6**	**208**	99.9	207
464.h264ref	599	37.0	599	36.9	**599**	**37.0**	538	41.1	**539**	**41.1**	539	41.1
471.omnetpp	255	24.5	**254**	**24.6**	254	24.6	218	28.7	**218**	**28.7**	217	28.7
473.astar	395	17.8	**395**	**17.8**	395	17.8	355	19.8	**356**	**19.7**	356	19.7
483.xalancbmk	232	29.8	231	29.9	**231**	**29.8**	232	29.8	231	29.9	**231**	**29.8**

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,
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)
OMP_NUM_THREADS set to number of logical processors as seen by the OS
KMP_AFFINITY set to physical,0
```

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 -Qparallel
-Qpar-runtime-control -Qvec-guard-write /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- /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 files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090713.html
http://www.spec.org/cpu2006/flags/Intel-Win32-Platform.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090713.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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