SPEC® CINT2006 Result

ASUS Computer International

(Test Sponsor: Intel Corporation)

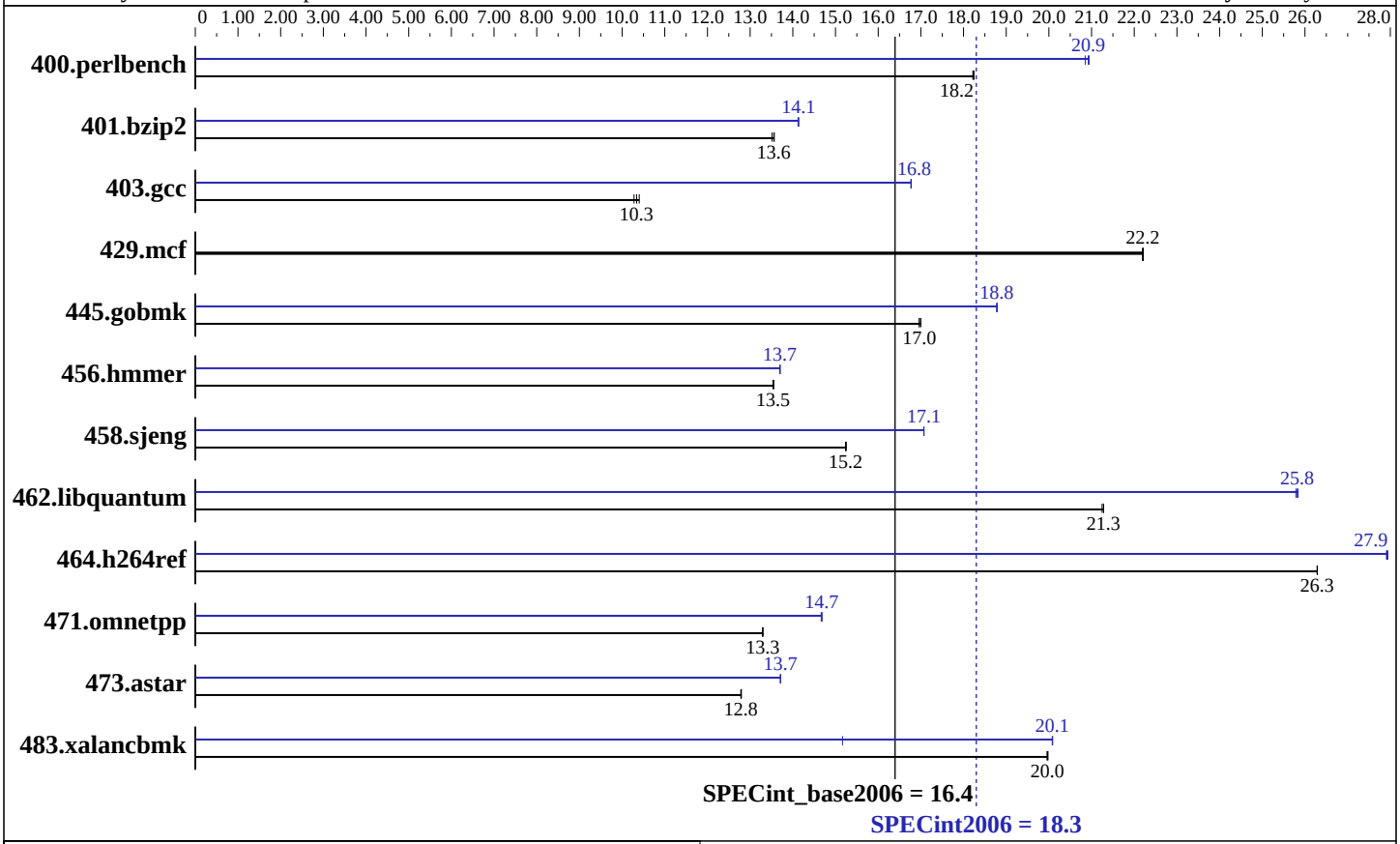
Asus G2S (Intel Core 2 Duo X7800)

SPECint®2006 = 18.3

SPECint_base2006 = 16.4

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jun-2007
Hardware Availability: Jun-2007
Software Availability: May-2007



Hardware

CPU Name:	Intel Core 2 Duo X7800
CPU Characteristics:	2.60 GHz, 4MB L2, 800 MHz bus
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	2 GB (2x1GB Hynix DDR2-667 CL5)
Disk Subsystem:	160GB Hitachi SATA, 5400RPM
Other Hardware:	None

Software

Operating System:	Windows Vista32 Ultimate
Compiler:	Intel C++ Compiler for IA32 version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 Microsoft Visual Studio .Net 2003 (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 8.0 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	536	18.2	536	18.2	**536**	**18.2**	**467**	**20.9**	469	20.9	467	20.9
401.bzip2	714	13.5	**712**	**13.6**	711	13.6	**683**	**14.1**	683	14.1	683	14.1
403.gcc	**778**	**10.3**	783	10.3	774	10.4	480	16.8	480	16.8	**480**	**16.8**
429.mcf	**411**	**22.2**	411	22.2	411	22.2	**411**	**22.2**	411	22.2	411	22.2
445.gobmk	**618**	**17.0**	619	17.0	617	17.0	558	18.8	**559**	**18.8**	559	18.8
456.hmmer	**689**	**13.5**	689	13.5	688	13.6	681	13.7	681	13.7	**681**	**13.7**
458.sjeng	794	15.2	**794**	**15.2**	793	15.3	**709**	**17.1**	709	17.1	709	17.1
462.libquantum	**974**	**21.3**	975	21.2	974	21.3	804	25.8	**803**	**25.8**	802	25.8
464.h264ref	**842**	**26.3**	842	26.3	842	26.3	792	27.9	**793**	**27.9**	793	27.9
471.omnetpp	**470**	**13.3**	470	13.3	470	13.3	**426**	**14.7**	426	14.7	426	14.7
473.astar	549	12.8	549	12.8	**549**	**12.8**	**512**	**13.7**	512	13.7	512	13.7
483.xalancbmk	**346**	**20.0**	345	20.0	346	20.0	455	15.2	**344**	**20.1**	343	20.1

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

General Notes

```
The system bus runs at 667 MHz
System was configured with an nVIDIA 8600M GT graphics card
Binaries were built on Windows XP Professional SP2
```

Base Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:
```
icl -Qvc7.1
```

Base Portability Flags

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

Base Optimization Flags

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

Continued on next page

Base Optimization Flags (Continued)

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 -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Peak Portability Flags

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

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

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

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

429.mcf: basepeak = yes

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec_div- -Qansi-alias /F512000000
-link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

456.hmmer: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll2 -Qansi-alias /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

458.sjeng: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll4 /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

462.libquantum: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

464.h264ref: `Same as 456.hmmer`

C++ benchmarks:
`-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.20090714.18.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.20090714.18.xml`

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

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