SPEC® CINT2006 Result

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Dell Inc.

(Test Sponsor: Intel Corporation)

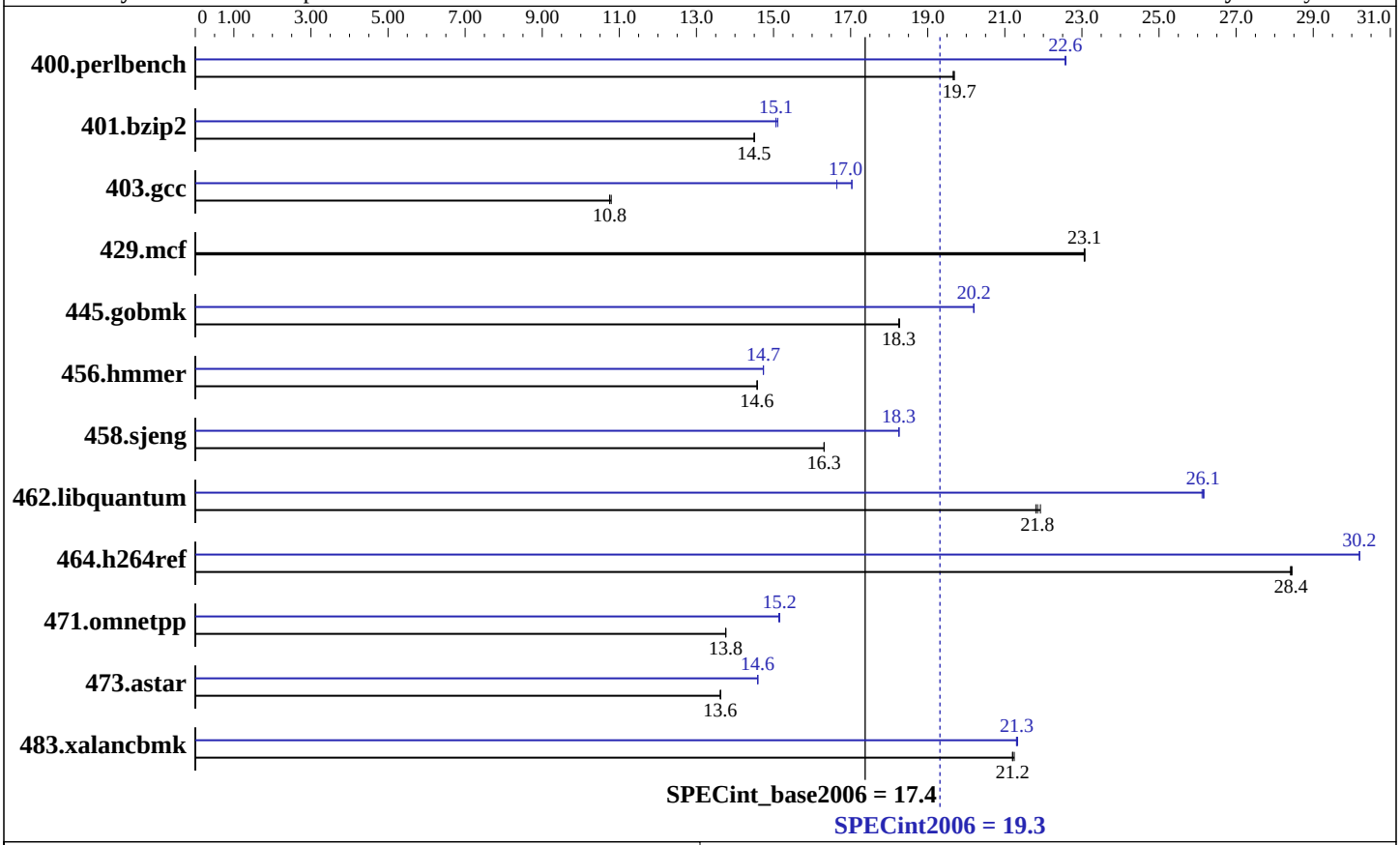
XPS M1730 (Intel Core 2 Extreme X7900)

SPECint®2006 = 19.3

SPECint_base2006 = 17.4

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

Test date: Jul-2007
Hardware Availability: Aug-2007
Software Availability: May-2007



Hardware

CPU Name:	Intel Core 2 Extreme X7900
CPU Characteristics:	
CPU MHz:	2800
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 Qimonda DDR2-667 CL5)
Disk Subsystem:	80GB SATA, 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Ultimate (32-bit)
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:	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	497	19.7	496	19.7	**497**	**19.7**	433	22.6	433	22.6	**433**	**22.6**
401.bzip2	665	14.5	666	14.5	**666**	**14.5**	639	15.1	641	15.1	**641**	**15.1**
403.gcc	746	10.8	**749**	**10.8**	749	10.7	**473**	**17.0**	473	17.0	484	16.6
429.mcf	**395**	**23.1**	396	23.1	395	23.1	**395**	**23.1**	396	23.1	395	23.1
445.gobmk	**575**	**18.3**	575	18.3	574	18.3	520	20.2	519	20.2	**519**	**20.2**
456.hmmer	**640**	**14.6**	640	14.6	640	14.6	**633**	**14.7**	633	14.7	633	14.7
458.sjeng	**742**	**16.3**	742	16.3	742	16.3	**663**	**18.3**	663	18.3	663	18.3
462.libquantum	**948**	**21.8**	950	21.8	945	21.9	793	26.1	**792**	**26.1**	792	26.2
464.h264ref	779	28.4	**778**	**28.4**	778	28.5	**733**	**30.2**	733	30.2	733	30.2
471.omnetpp	454	13.8	454	13.8	**454**	**13.8**	413	15.1	412	15.2	**412**	**15.2**
473.astar	**515**	**13.6**	515	13.6	515	13.6	481	14.6	481	14.6	**481**	**14.6**
483.xalancbmk	325	21.2	325	21.2	**325**	**21.2**	**324**	**21.3**	323	21.3	324	21.3

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

General Notes

```
nVidia GeForce 8700M GT discrete 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.20090714.47.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.20090714.47.xml

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For other inquiries, please contact webmaster@spec.org.

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