SPEC® CINT2006 Result

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Dell Inc.

(Test Sponsor: Intel Corporation)

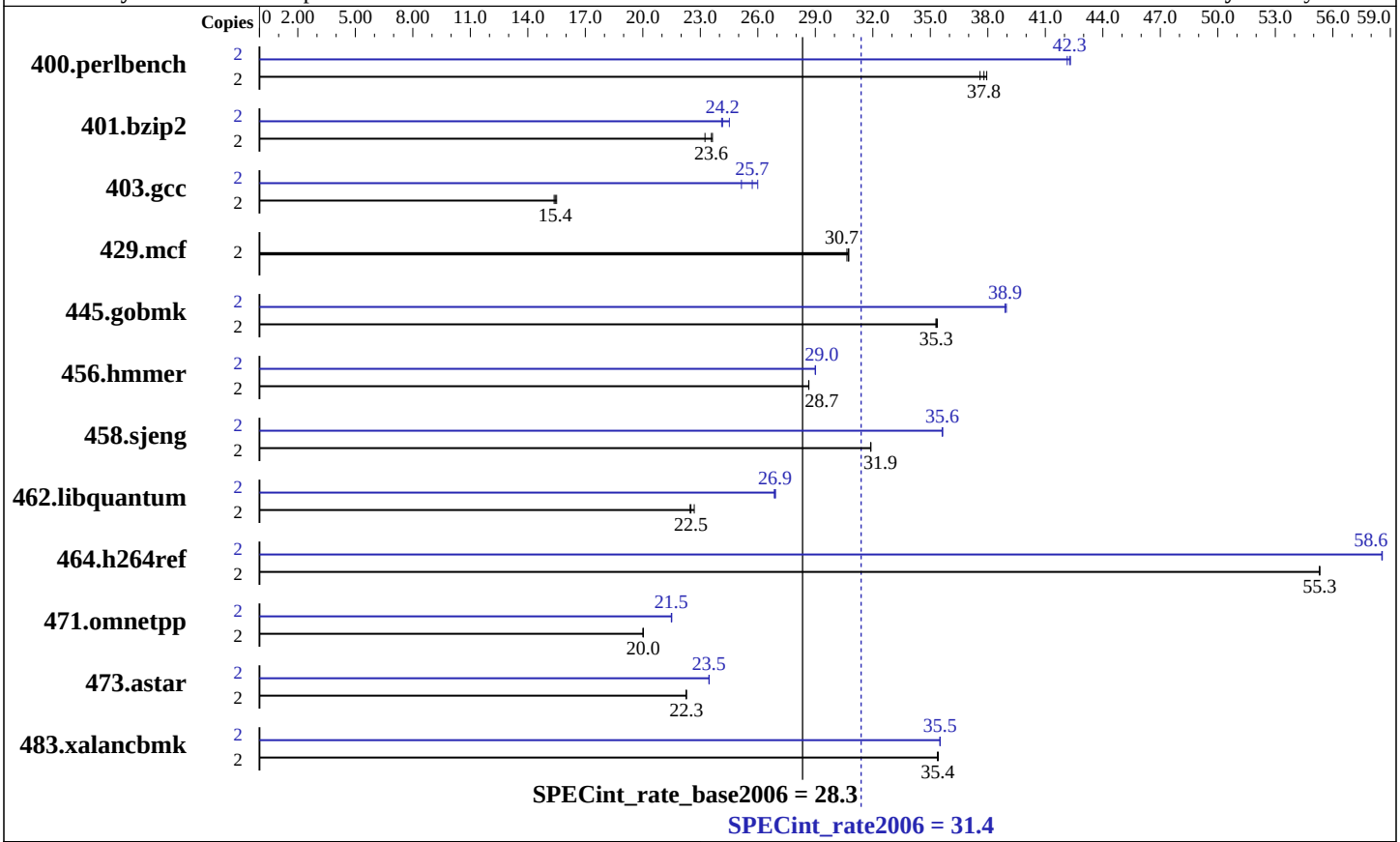
XPS M1730 (Intel Core 2 Extreme X7900)

SPECint®_rate2006 = 31.4

SPECint_rate_base2006 = 28.3

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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	515	37.9	520	37.6	**517**	**37.8**	2	464	42.1	**462**	**42.3**	462	42.3
401.bzip2	2	830	23.2	**819**	**23.6**	817	23.6	2	800	24.1	787	24.5	**799**	**24.2**
403.gcc	2	1038	15.5	**1043**	**15.4**	1047	15.4	2	619	26.0	**626**	**25.7**	640	25.1
429.mcf	2	**594**	**30.7**	593	30.7	595	30.6	2	**594**	**30.7**	593	30.7	595	30.6
445.gobmk	2	594	35.3	593	35.4	**594**	**35.3**	2	**539**	**38.9**	539	38.9	538	39.0
456.hmmer	2	**651**	**28.7**	651	28.7	651	28.7	2	644	29.0	**643**	**29.0**	643	29.0
458.sjeng	2	**759**	**31.9**	759	31.9	759	31.9	2	679	35.6	679	35.6	**679**	**35.6**
462.libquantum	2	**1841**	**22.5**	1827	22.7	1844	22.5	2	1539	26.9	**1541**	**26.9**	1543	26.9
464.h264ref	2	800	55.3	**800**	**55.3**	800	55.3	2	756	58.6	**756**	**58.6**	756	58.6
471.omnetpp	2	625	20.0	624	20.0	**624**	**20.0**	2	582	21.5	**582**	**21.5**	581	21.5
473.astar	2	**630**	**22.3**	630	22.3	631	22.3	2	598	23.5	**599**	**23.5**	599	23.5
483.xalancbmk	2	**390**	**35.4**	390	35.4	390	35.4	2	389	35.5	389	35.5	**389**	**35.5**

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
The start command with the /affinity switch was used to bind processes to cores
```

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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