SPEC® CINT2006 Result

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Dell Inc.

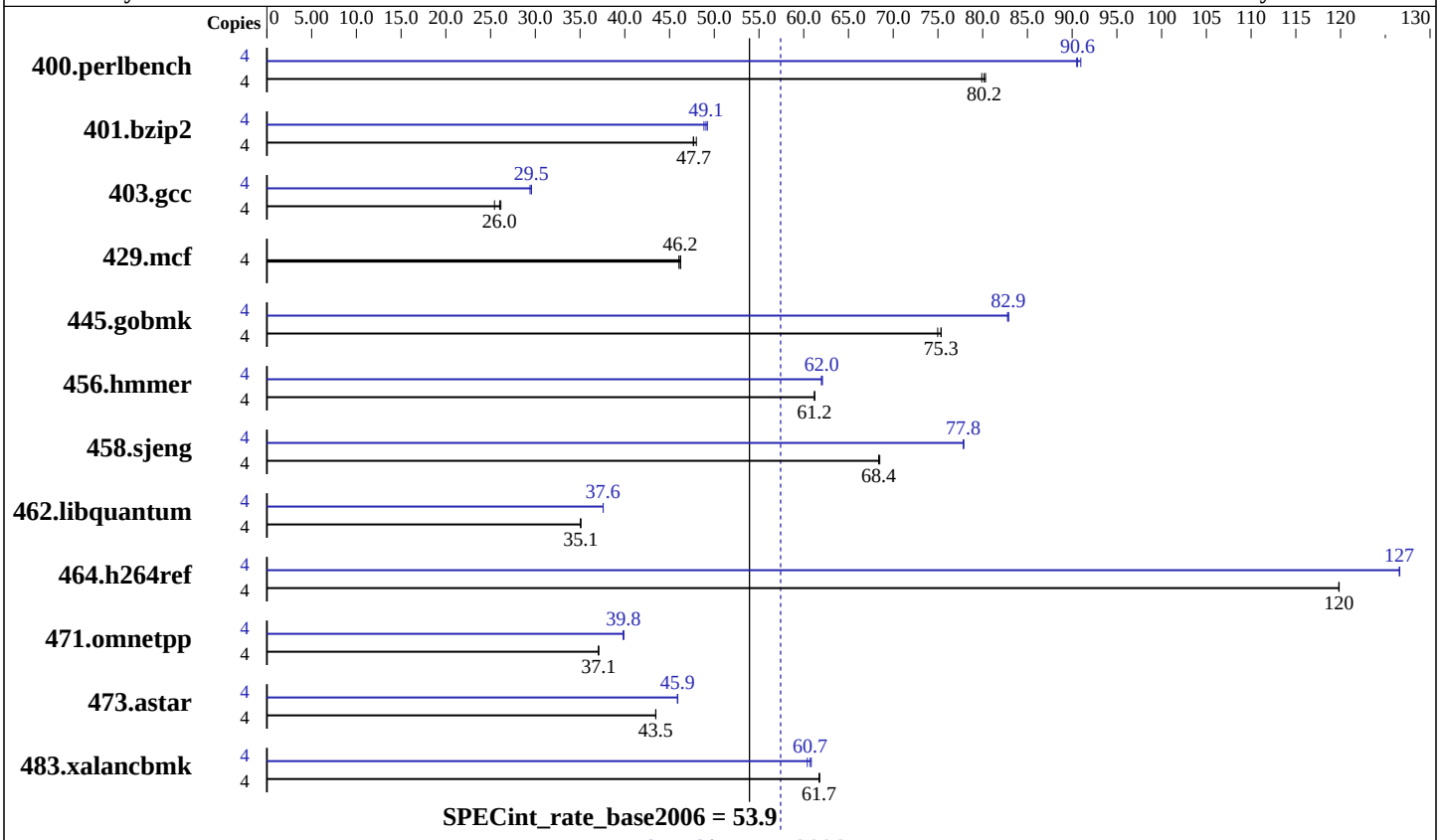
Dell Precision 690 (Intel Xeon X5365, 3.00 GHz)

SPECint®_rate2006 = 57.4

SPECint_rate_base2006 = 53.9

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

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



Hardware

CPU Name:	Intel Xeon X5365
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8x2 GB 667 MHz ECC CL5 FB-DIMM)
Disk Subsystem:	1 x 73GB SAS 10K RPM
Other Hardware:	None

Software

Operating System:	Windows XP Professional x64 Edition SP2
Compiler:	Intel C++ Compiler for IA-32, Version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 Microsoft Visual Studio 2005 SP1
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill SmartHeap Library 8.0

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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	4	**488**	**80.2**	487	80.3	489	79.9	4	430	91.0	**431**	**90.6**	432	90.5
401.bzip2	4	804	48.0	**809**	**47.7**	810	47.7	4	**787**	**49.1**	784	49.2	790	48.9
403.gcc	4	1231	26.2	1266	25.4	**1238**	**26.0**	4	1089	29.6	**1090**	**29.5**	1095	29.4
429.mcf	4	**790**	**46.2**	789	46.2	792	46.0	4	**790**	**46.2**	789	46.2	792	46.0
445.gobmk	4	**557**	**75.3**	557	75.4	560	75.0	4	507	82.8	**506**	**82.9**	506	82.9
456.hmmer	4	610	61.2	610	61.2	**610**	**61.2**	4	601	62.1	602	62.0	**602**	**62.0**
458.sjeng	4	708	68.4	**708**	**68.4**	707	68.5	4	**622**	**77.8**	622	77.8	621	77.9
462.libquantum	4	2363	35.1	2364	35.1	**2363**	**35.1**	4	**2205**	**37.6**	2205	37.6	2205	37.6
464.h264ref	4	**739**	**120**	739	120	739	120	4	699	127	**699**	**127**	699	127
471.omnetpp	4	**674**	**37.1**	675	37.0	674	37.1	4	628	39.8	627	39.9	**627**	**39.8**
473.astar	4	**646**	**43.5**	646	43.5	646	43.5	4	**612**	**45.9**	612	45.9	611	45.9
483.xalancbmk	4	447	61.8	**447**	**61.7**	447	61.7	4	**454**	**60.7**	457	60.4	454	60.8

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

General Notes

```
Binaries were built on Windows Vista Ultimate (64-bit)

BIOS Settings
  Snoop Filter                 : OFF
  Adjacent Cache Line Prefetch : OFF
  Hardware Prefetcher          : OFF

  Snoop Filter
    Preserves cache coherency while minimizing snoops
    to remote nodes.

  Adjacent Cache Line Prefetch
    Prefetch data in order to shorten execution cycles
    and maximize data processing efficiency.

  Optimization for high-frequency FSB applicatons: ON
```

Base Compiler Invocation

C benchmarks:

```
icl -Qstd=c99
```

C++ benchmarks:

```
icl
```

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`

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 -Qstd=c99`

C++ benchmarks:
`icl`

Peak Portability Flags

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

Peak Optimization Flags

C benchmarks:

400.perlbench: `ONESTEP -Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qansi-alias -Qprefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

Continued on next page

Peak Optimization Flags (Continued)

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

403.gcc: ONESTEP -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

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

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

462.libquantum: ONESTEP -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:
ONESTEP -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/dell.ic10.windows.flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.ic10.windows.flags.xml

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