SPEC® CINT2006 Result

Dell Inc.

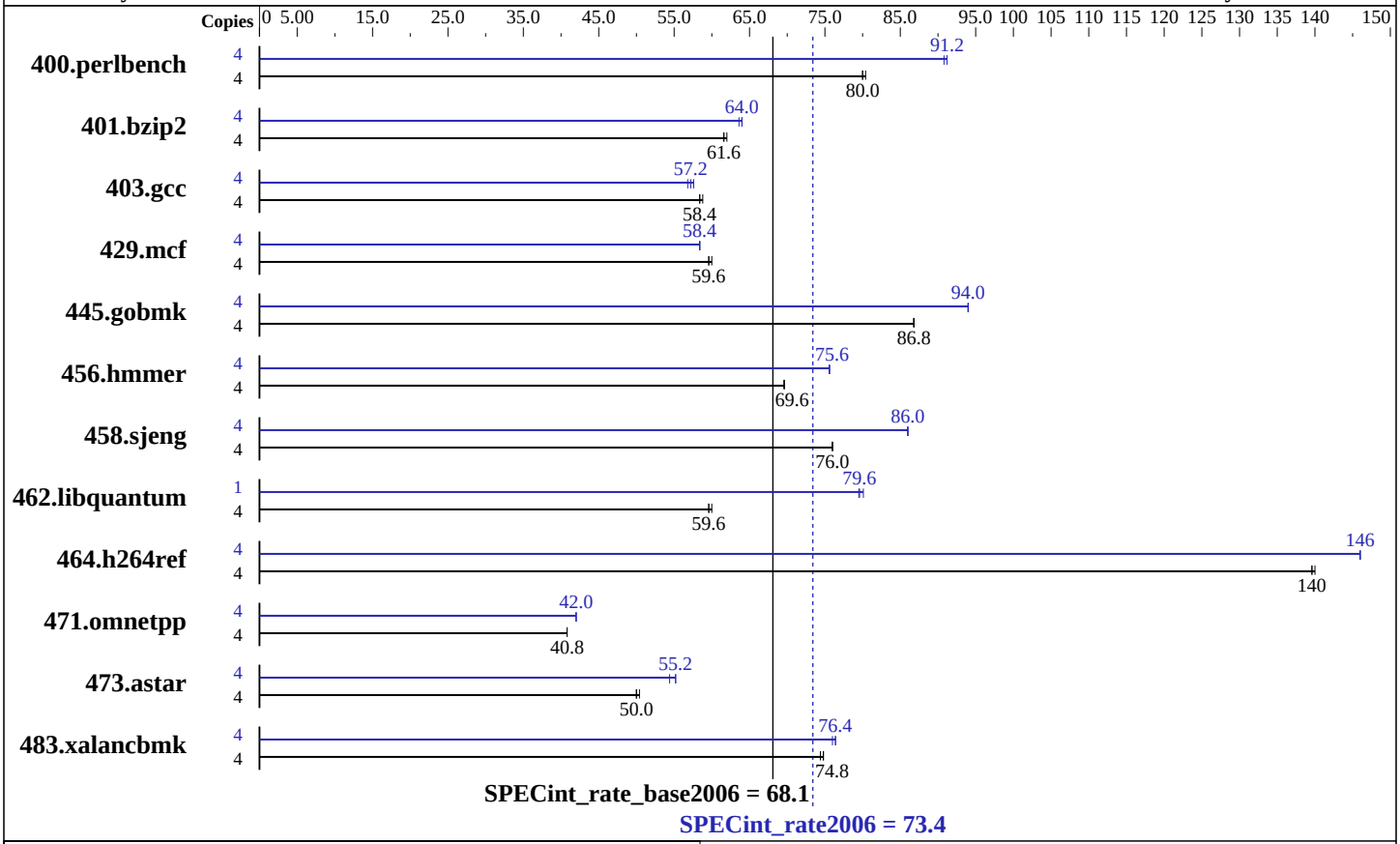
Dell Precision R5400 (Intel Xeon X5260, 3.33 GHz)

SPECint®_rate2006 = 73.4

SPECint_rate_base2006 = 68.1

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

Test date: Jun-2008
Hardware Availability: Jul-2008
Software Availability: Mar-2008



Hardware

CPU Name:	Intel Xeon X5260
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	3333
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	6 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (4x4 GB 667 MHz CL5 FB-DIMM)
Disk Subsystem:	2 x 320 GB SATA 7200 RPM, RAID0
Other Hardware:	None

Software

Operating System:	Windows Vista Ultimate 64-bit
Compiler:	Intel C++ Compiler for IA-32, Version 10.1 Build 20080312 Package ID: w_cc_p_10.1.021 Microsoft Visual Studio 2005 SP1
Auto Parallel:	Yes
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill SmartHeap Library 8.1

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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**	**80.0**	485	80.4	488	80.0	4	**429**	**91.2**	431	90.8	428	91.2
401.bzip2	4	625	61.6	**625**	**61.6**	622	62.0	4	**604**	**64.0**	605	63.6	602	64.0
403.gcc	4	551	58.4	549	58.8	**551**	**58.4**	4	**563**	**57.2**	566	56.8	558	57.6
429.mcf	4	613	59.6	**612**	**59.6**	609	60.0	4	626	58.4	624	58.4	**626**	**58.4**
445.gobmk	4	483	86.8	485	86.8	**484**	**86.8**	4	447	94.0	447	94.0	**447**	**94.0**
456.hmmer	4	536	69.6	**536**	**69.6**	536	69.6	4	494	75.6	**494**	**75.6**	494	75.6
458.sjeng	4	636	76.0	636	76.0	**636**	**76.0**	4	**562**	**86.0**	563	86.0	562	86.0
462.libquantum	4	1380	60.0	**1386**	**59.6**	1389	59.6	1	**260**	**79.6**	259	80.1	261	79.5
464.h264ref	4	**633**	**140**	633	140	633	140	4	**606**	**146**	606	146	606	146
471.omnetpp	4	613	40.8	612	40.8	**612**	**40.8**	4	595	42.0	594	42.0	**595**	**42.0**
473.astar	4	558	50.4	**560**	**50.0**	560	50.0	4	509	55.2	**510**	**55.2**	515	54.4
483.xalancbmk	4	370	74.4	369	74.8	**370**	**74.8**	4	363	76.0	362	76.4	**362**	**76.4**

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
  Adjacent Cache Line Prefetch set to 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`
483.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

Base Optimization Flags

C benchmarks:
```
-fast -Qvec-guard-write /F512000000
```

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`
483.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

Peak Optimization Flags

C benchmarks:

400.perlbench: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qansi-alias -Qprefetch /F512000000`

401.bzip2: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qprefetch /F512000000`

403.gcc: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000`

429.mcf: `Same as 401.bzip2`

Continued on next page

Peak Optimization Flags (Continued)

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -Qopt-multi-version-aggressive /F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 /F512000000

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always -Qparallel -Qpar-runtime-control /F512000000 shlw32mt.lib

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=block -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=routine -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: -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.ic10.1.windows.flags.20090713.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090713.00.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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