SPEC® CINT2006 Result

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Dell Inc.

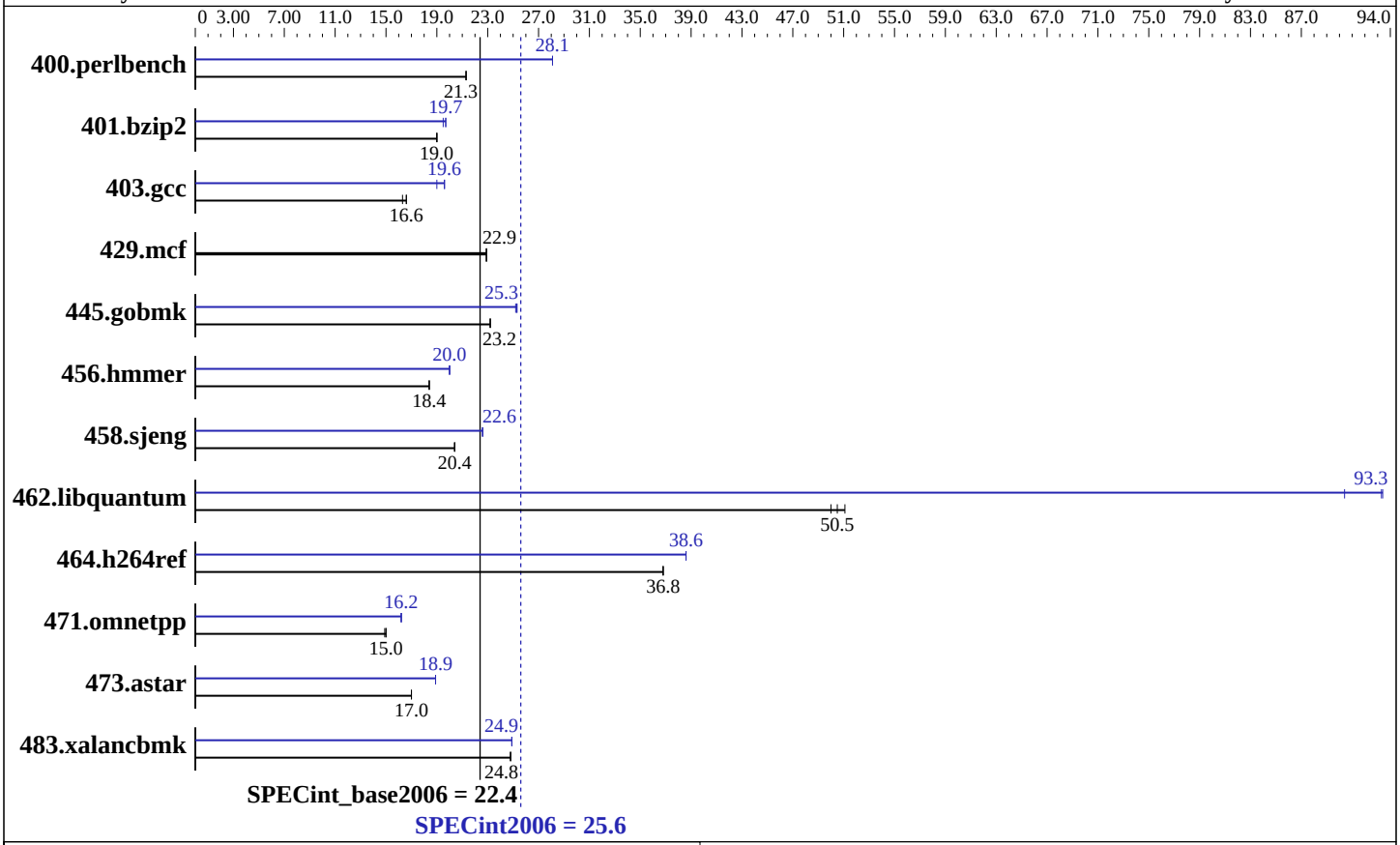
Dell Precision R5400 (Intel X5270, 3.50 GHz)

SPECint®2006 = 25.6

SPECint_base2006 = 22.4

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

Test date: Sep-2008
Hardware Availability: Oct-2008
Software Availability: Mar-2008



Hardware

CPU Name:	Intel Xeon X5270
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	3500
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:	1 x 320 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Business SP1 (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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	458	21.3	**459**	**21.3**	459	21.3	**348**	**28.1**	348	28.1	347	28.1
401.bzip2	508	19.0	508	19.0	**508**	**19.0**	491	19.7	**491**	**19.7**	495	19.5
403.gcc	493	16.3	484	16.6	**484**	**16.6**	424	19.0	411	19.6	**411**	**19.6**
429.mcf	**399**	**22.9**	399	22.9	399	22.9	**399**	**22.9**	399	22.9	399	22.9
445.gobmk	453	23.2	452	23.2	**452**	**23.2**	415	25.3	**415**	**25.3**	416	25.2
456.hmmer	**507**	**18.4**	506	18.4	507	18.4	467	20.0	467	20.0	**467**	**20.0**
458.sjeng	595	20.4	594	20.4	**594**	**20.4**	535	22.6	**535**	**22.6**	535	22.6
462.libquantum	414	50.0	406	51.1	**411**	**50.5**	**222**	**93.3**	222	93.4	229	90.4
464.h264ref	**601**	**36.8**	601	36.8	601	36.8	574	38.6	**573**	**38.6**	573	38.6
471.omnetpp	419	14.9	**418**	**15.0**	418	15.0	386	16.2	**385**	**16.2**	385	16.2
473.astar	**413**	**17.0**	413	17.0	413	17.0	371	18.9	372	18.9	**372**	**18.9**
483.xalancbmk	**278**	**24.8**	278	24.8	279	24.8	**277**	**24.9**	277	24.9	277	24.9

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 -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000
libguide40.lib
```

C++ benchmarks:
```
-fast -Qcxx_features /F512000000 shlw32m.lib libguide40.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 -Qparallel -Qpar-runtime-control /F512000000 shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE`

401.bzip2: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qprefetch /F512000000 libguide40.lib`

403.gcc: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 libguide40.lib`

Continued on next page

Peak Optimization Flags (Continued)

429.mcf: basepeak = yes

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 libguide40.lib

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 /F512000000 libguide40.lib

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always -Qparallel -Qpar-runtime-control /F512000000 libguide40.lib

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias /F512000000 libguide40.lib

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 libguide40.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 libguide40.lib -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qcxx_features /F512000000 shlw32m.lib libguide40.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.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.xml

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