SPEC® CINT2006 Result

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Dell Inc.

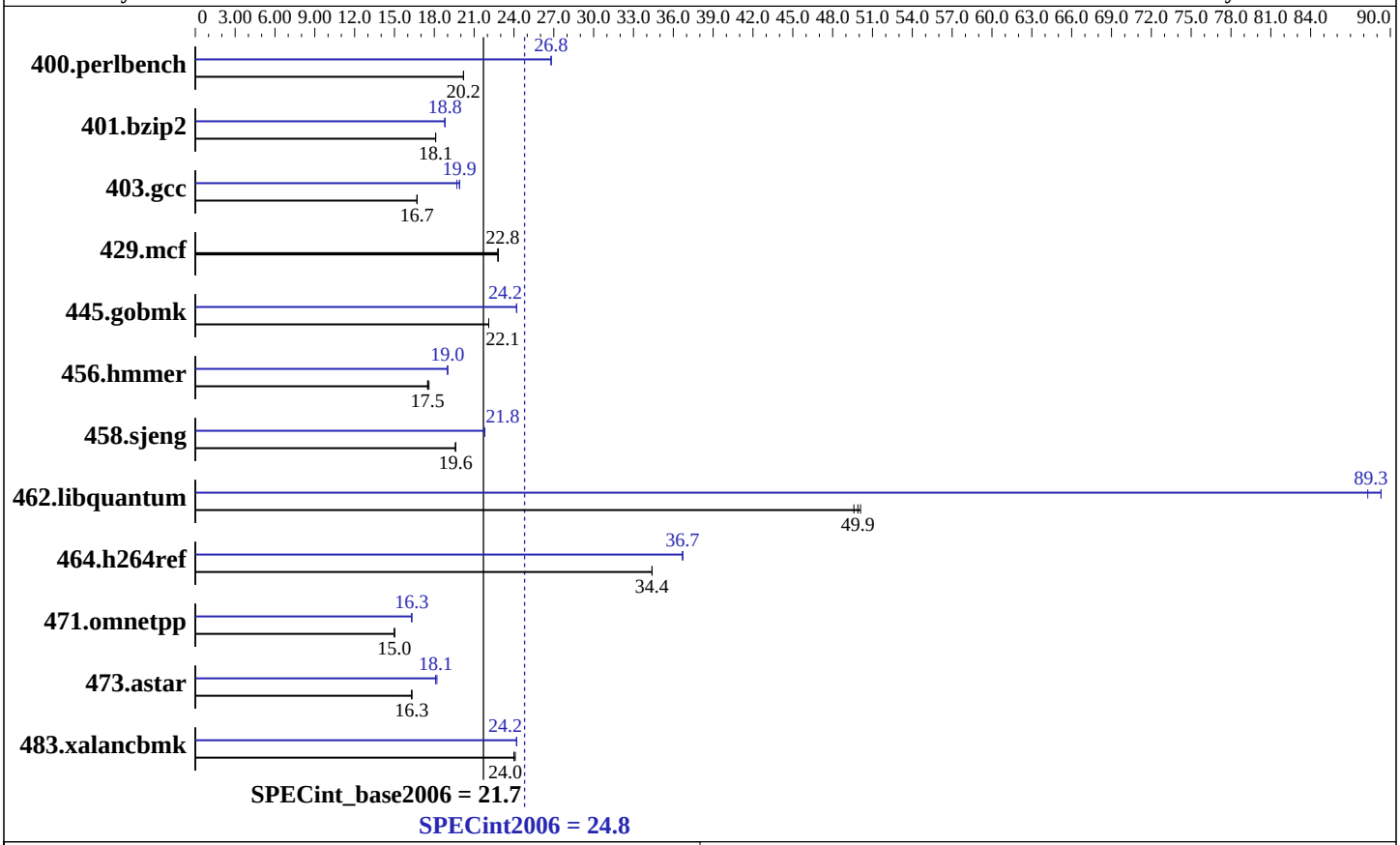
Dell Precision R5400 (Intel Xeon X5260, 3.33 GHz)

SPECint®2006 = 24.8

SPECint_base2006 = 21.7

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	483	20.2	**483**	**20.2**	483	20.2	365	26.8	364	26.8	**364**	**26.8**
401.bzip2	532	18.1	532	18.1	**532**	**18.1**	514	18.8	514	18.8	**514**	**18.8**
403.gcc	481	16.7	481	16.7	**481**	**16.7**	404	19.9	408	19.7	**404**	**19.9**
429.mcf	400	22.8	**401**	**22.8**	401	22.8	400	22.8	**401**	**22.8**	401	22.8
445.gobmk	475	22.1	**475**	**22.1**	474	22.1	434	24.2	434	24.2	**434**	**24.2**
456.hmmer	**532**	**17.5**	532	17.5	532	17.6	**490**	**19.0**	490	19.0	490	19.0
458.sjeng	619	19.6	617	19.6	**617**	**19.6**	556	21.8	556	21.8	**556**	**21.8**
462.libquantum	418	49.6	413	50.1	**415**	**49.9**	235	88.3	232	89.3	**232**	**89.3**
464.h264ref	643	34.4	643	34.4	**643**	**34.4**	603	36.7	603	36.7	**603**	**36.7**
471.omnetpp	418	15.0	416	15.0	**417**	**15.0**	383	16.3	**384**	**16.3**	384	16.3
473.astar	431	16.3	430	16.3	**430**	**16.3**	**387**	**18.1**	386	18.2	387	18.1
483.xalancbmk	287	24.0	**287**	**24.0**	287	24.1	**286**	**24.2**	285	24.2	286	24.2

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.20090713.00.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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