SPEC® CINT2006 Result

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Dell Inc.

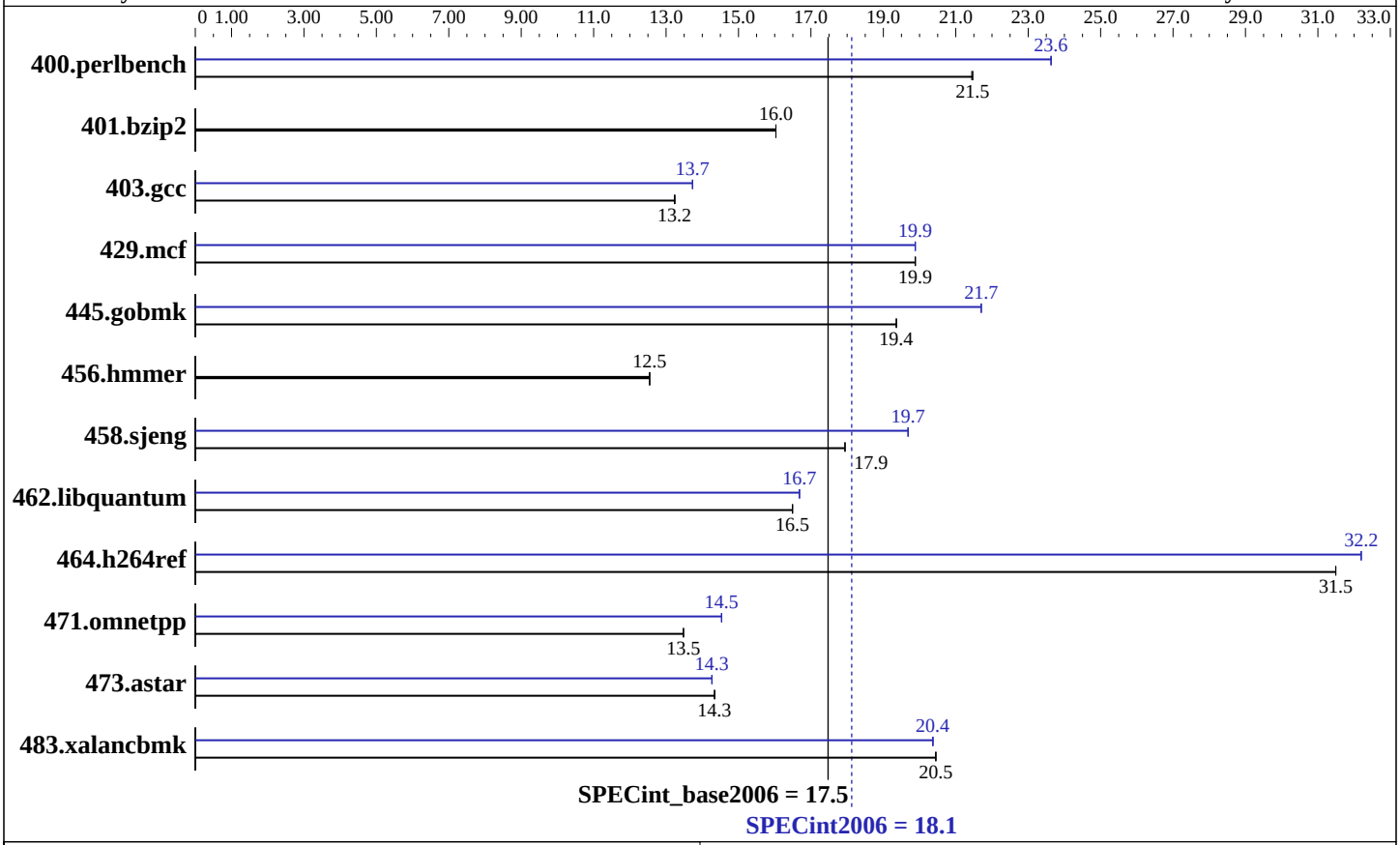
Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECint®2006 = 18.1

SPECint_base2006 = 17.5

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

Test date: Jan-2007
Hardware Availability: May-2006
Software Availability: Jan-2007



Hardware

CPU Name:	Intel Xeon 5160
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2 chips
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:	8 GB (8x1 GB 667 MHz ECC CL5 DDR2 FB-DIMM)
Disk Subsystem:	1 x 72 GB SAS 10K RPM
Other Hardware:	None

Software

Operating System:	Windows XP Professional x64 Edition
Compiler:	Intel C++ Compiler 9.1 for IA32 (20061103Z) Microsoft Visual Studio 2005
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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	456	21.4	455	21.5	**455**	**21.5**	413	23.6	**413**	**23.6**	413	23.6
401.bzip2	602	16.0	**602**	**16.0**	602	16.0	602	16.0	**602**	**16.0**	602	16.0
403.gcc	**608**	**13.2**	608	13.2	609	13.2	587	13.7	586	13.7	**586**	**13.7**
429.mcf	459	19.9	**459**	**19.9**	459	19.9	459	19.9	459	19.9	**459**	**19.9**
445.gobmk	**542**	**19.4**	542	19.4	542	19.4	483	21.7	**483**	**21.7**	483	21.7
456.hmmer	744	12.5	**744**	**12.5**	744	12.5	744	12.5	**744**	**12.5**	744	12.5
458.sjeng	**674**	**17.9**	674	17.9	674	17.9	615	19.7	**615**	**19.7**	615	19.7
462.libquantum	**1256**	**16.5**	1257	16.5	1256	16.5	1242	16.7	1242	16.7	**1242**	**16.7**
464.h264ref	703	31.5	703	31.5	**703**	**31.5**	687	32.2	687	32.2	**687**	**32.2**
471.omnetpp	464	13.5	464	13.5	**464**	**13.5**	430	14.5	**430**	**14.5**	430	14.5
473.astar	490	14.3	490	14.3	**490**	**14.3**	492	14.3	492	14.3	**492**	**14.3**
483.xalancbmk	**337**	**20.5**	337	20.5	338	20.4	**339**	**20.4**	339	20.4	339	20.4

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

General Notes

```
BIOS Settings
  Adjacent Cache Line Prefetch set to ON:
   Prefetch data in order to shorten execution
   cycles and maximize data processing efficiency.

  Snoop Filter set to OFF
   Snoop Filter preserves cache coherency while minimizing
   snoops to remote nodes.

32-bit binaries were built on Windows XP Professional x64 Edition
```

Base Compiler Invocation

C benchmarks:
`icl -Qc99`

C++ benchmarks:
`icl`

Base Portability Flags

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

Continued on next page

Base Portability Flags (Continued)

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

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 -Qc99`

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: `ONESTEP -Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlW32M.lib -link /FORCE:MULTIPLE`

401.bzip2: `basepeak = yes`

Continued on next page

Peak Optimization Flags (Continued)

403.gcc: Same as 400.perlbench

429.mcf: ONESTEP -fast /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlW32M.lib -link /FORCE:MULTIPLE

456.hmmer: basepeak = yes

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qcxx_features /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE

473.astar: Same as 471.omnetpp

483.xalancbmk: ONESTEP -fast -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.cpu2006.ic91.flags.20090715.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.xml

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For other inquiries, please contact webmaster@spec.org.

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