SPEC® CINT2006 Result
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Dell Inc.

Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECint®2006 =　18.1
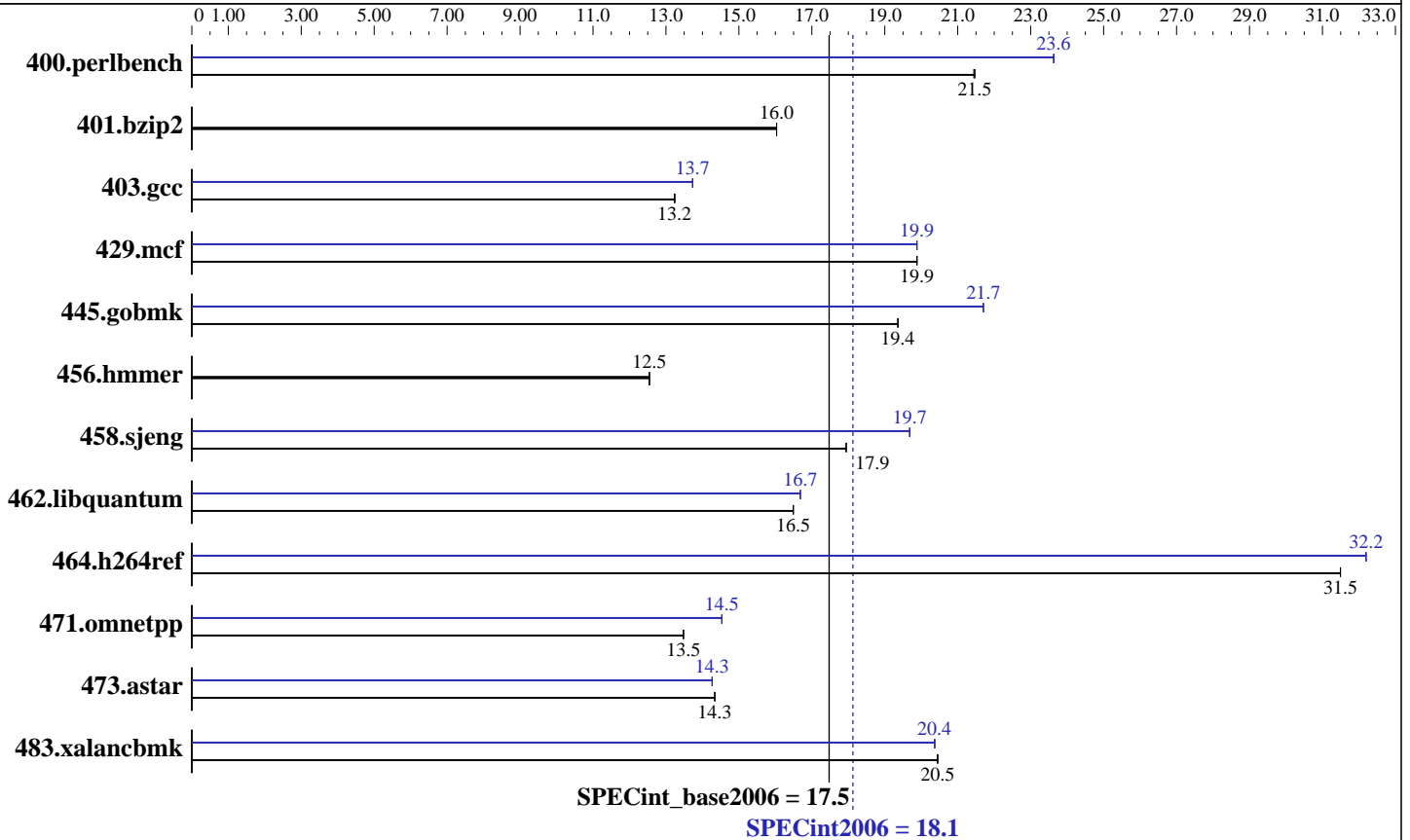
SPECint_base2006 =　17.5

CPU2006 license: 55

Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jan-2007

Hardware Availability: May-2006

Software Availability: Jan-2007

Benchmark	Value (blue)	Value (base)
400.perlbench	23.6	21.5
401.bzip2		16.0
403.gcc	13.7	13.2
429.mcf	19.9	19.9
445.gobmk	21.7	19.4
456.hmmer		12.5
458.sjeng	19.7	17.9
462.libquantum	16.7	16.5
464.h264ref	32.2	31.5
471.omnetpp	14.5	13.5
473.astar	14.3	14.3
483.xalancbmk	20.4	20.5

SPECint_base2006 = 17.5

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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
```

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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`

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Test sponsor: Dell Inc.	**Hardware Availability:** May-2006
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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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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