SPEC® CINT2006 Result
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Dell Inc.

Dell Precision 390 (Intel X6800, 2.93 GHz)

SPECint®2006 =   18.5

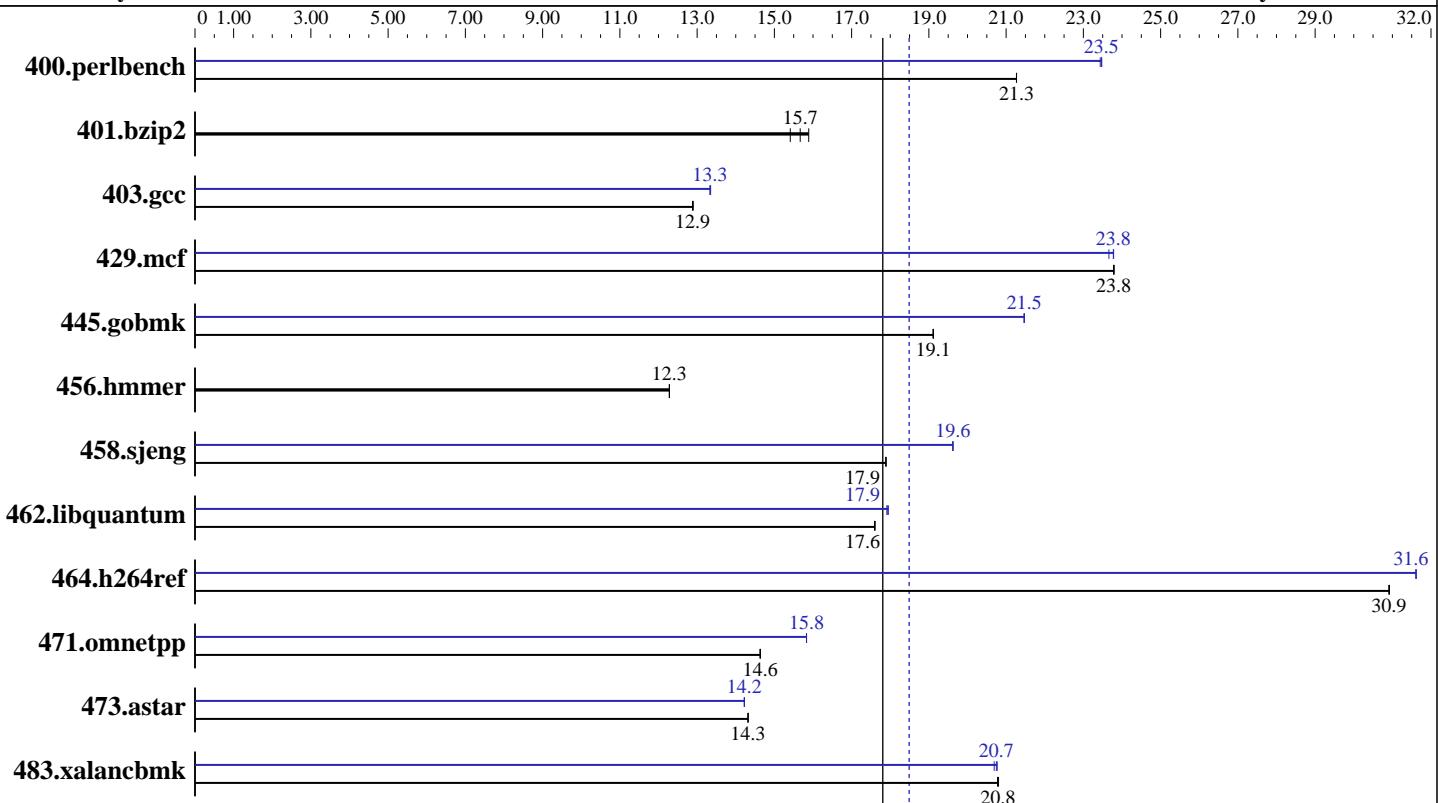SPECint_base2006 =   17.8

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

Test date: Dec-2006
Hardware Availability: Jul-2006
Software Availability: Nov-2006

Benchmark	Peak	Base
400.perlbench	23.5	21.3
401.bzip2	15.7	
403.gcc	13.3	12.9
429.mcf	23.8	23.8
445.gobmk	21.5	19.1
456.hmmer	12.3	
458.sjeng	19.6	17.9
462.libquantum	17.9	17.6
464.h264ref	31.6	30.9
471.omnetpp	15.8	14.6
473.astar	14.2	14.3
483.xalancbmk	20.7	20.8

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Hardware

CPU Name: Intel Core 2 Extreme X6800
CPU Characteristics: 1066 MHz System Bus
CPU MHz: 2933
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1 chip
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: 4 GB (4x1GB 667 MHz ECC CL5 DDR2 SDRAM)
Disk Subsystem: 1 x 80 GB SATA 7200 RPM
Other Hardware: None

Software

Operating System: Windows XP Professional SP2
Compiler: Intel C++ Compiler 9.1 for IA32 (20061103Z)
Microsoft Visual Studio 2005
MicroQuill SmartHeap Library 8.0
Auto Parallel: No
File System: NTFS
System State: Default
Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	459	21.3	459	21.3	**459**	**21.3**	417	23.4	**416**	**23.5**	416	23.5
401.bzip2	**616**	**15.7**	626	15.4	607	15.9	**616**	**15.7**	626	15.4	607	15.9
403.gcc	624	12.9	625	12.9	**625**	**12.9**	603	13.3	604	13.3	**604**	**13.3**
429.mcf	383	23.8	**383**	**23.8**	384	23.8	385	23.7	383	23.8	**384**	**23.8**
445.gobmk	549	19.1	549	19.1	**549**	**19.1**	489	21.5	**489**	**21.5**	489	21.5
456.hmmer	760	12.3	760	12.3	**760**	**12.3**	760	12.3	760	12.3	**760**	**12.3**
458.sjeng	677	17.9	**676**	**17.9**	676	17.9	617	19.6	**617**	**19.6**	617	19.6
462.libquantum	1177	17.6	1178	17.6	**1177**	**17.6**	**1156**	**17.9**	1154	18.0	1156	17.9
464.h264ref	716	30.9	**716**	**30.9**	716	30.9	**700**	**31.6**	700	31.6	700	31.6
471.omnetpp	427	14.6	427	14.6	**427**	**14.6**	395	15.8	395	15.8	**395**	**15.8**
473.astar	**490**	**14.3**	490	14.3	490	14.3	494	14.2	**494**	**14.2**	494	14.2
483.xalancbmk	332	20.8	332	20.8	**332**	**20.8**	**333**	**20.7**	332	20.8	333	20.7

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

General Notes

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

Base Optimization Flags

C benchmarks:
    -fast /F512000000 shlW32M.lib   -link /FORCE:MULTIPLE

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Base Optimization Flags (Continued)

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`

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`

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Peak Optimization Flags (Continued)

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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
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