SPEC® CINT2006 Result

Dell Inc.

Dell Precision M6300 (Intel X9000, 2.80 GHz)

SPECint®2006 = 19.7

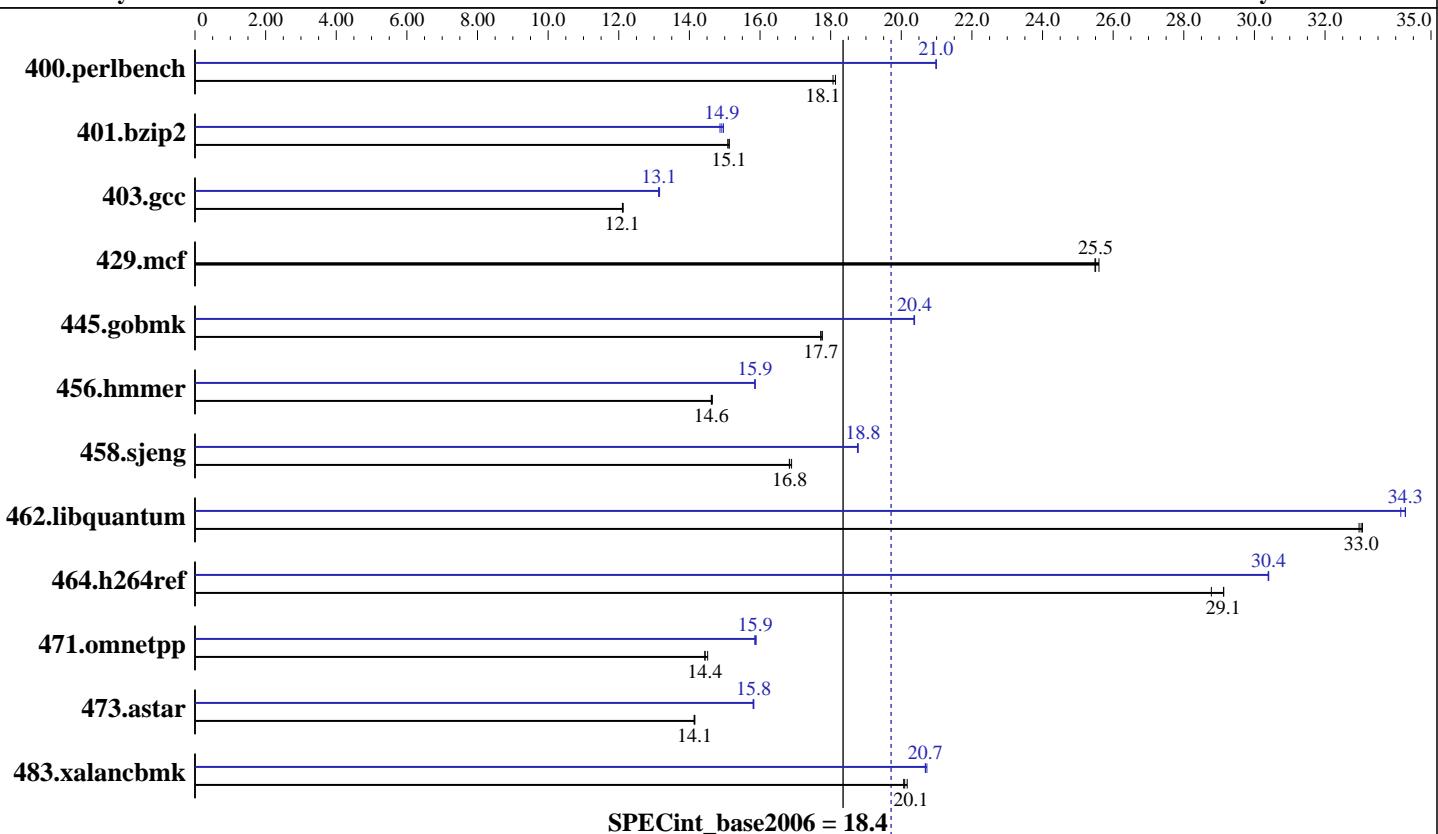SPECint_base2006 = 18.4

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

Test date: Dec-2007
Hardware Availability: Jan-2008
Software Availability: Nov-2007

Benchmark	base	peak
400.perlbench	18.1	21.0
401.bzip2	15.1	14.9
403.gcc	12.1	13.1
429.mcf	25.5	
445.gobmk	17.7	20.4
456.hmmer	14.6	15.9
458.sjeng	16.8	18.8
462.libquantum	33.0	34.3
464.h264ref	29.1	30.4
471.omnetpp	14.4	15.9
473.astar	14.1	15.8
483.xalancbmk	20.1	20.7

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Hardware

CPU Name:	Intel Core 2 Extreme X9000
CPU Characteristics:	800 MHz Bus Speed
CPU MHz:	2800
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:	6 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (2x2 GB 667 MHz CL5 DDR2)
Disk Subsystem:	1 x 120GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows XP Professional x64 Edition SP2
Compiler:	Intel C++ Compiler for IA-32, Version 10.1 Build 20070913 Package ID: w_cc_p_10.1.011 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	541	18.1	539	18.1	**539**	**18.1**	465	21.0	466	21.0	**466**	**21.0**
401.bzip2	**638**	**15.1**	640	15.1	638	15.1	645	15.0	**647**	**14.9**	649	14.9
403.gcc	664	12.1	**665**	**12.1**	665	12.1	612	13.2	613	13.1	**613**	**13.1**
429.mcf	356	25.6	358	25.5	**358**	**25.5**	356	25.6	358	25.5	**358**	**25.5**
445.gobmk	590	17.8	**592**	**17.7**	592	17.7	515	20.4	515	20.4	**515**	**20.4**
456.hmmer	637	14.7	638	14.6	**638**	**14.6**	589	15.9	588	15.9	**588**	**15.9**
458.sjeng	716	16.9	719	16.8	**719**	**16.8**	645	18.8	645	18.8	644	18.8
462.libquantum	**627**	**33.0**	629	33.0	627	33.1	604	34.3	**605**	**34.3**	607	34.1
464.h264ref	**760**	**29.1**	760	29.1	769	28.8	**728**	**30.4**	728	30.4	728	30.4
471.omnetpp	431	14.5	**433**	**14.4**	433	14.4	393	15.9	394	15.9	**394**	**15.9**
473.astar	496	14.2	497	14.1	**496**	**14.1**	**444**	**15.8**	444	15.8	444	15.8
483.xalancbmk	342	20.2	**343**	**20.1**	344	20.1	333	20.7	334	20.7	**334**	**20.7**

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)

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
        shlw32mt.lib libguide40.lib   -link /FORCE:MULTIPLE

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Base Optimization Flags (Continued)

C++ benchmarks:
```
-fast -Qcxx_features /F512000000 shlw32mt.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
               shlw32mt.lib libguide40.lib
                       -link /FORCE:MULTIPLE

   401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
              /F512000000 shlw32mt.lib libguide40.lib
                      -link /FORCE:MULTIPLE

     403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
              shlw32mt.lib libguide40.lib
                      -link /FORCE:MULTIPLE
```

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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
                        -link /FORCE:MULTIPLE

 456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
            -Qansi-alias -Qopt-multi-version-aggressive /F512000000
            shlw32mt.lib libguide40.lib
                        -link /FORCE:MULTIPLE

  458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
            /F512000000 shlw32mt.lib libguide40.lib
                        -link /FORCE:MULTIPLE

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch
            -Qopt-streaming-stores:always -Qparallel
            -Qpar-runtime-control /F512000000 shlw32mt.lib
            libguide40.lib             -link /FORCE:MULTIPLE

 464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
            -Qansi-alias /F512000000 shlw32mt.lib libguide40.lib
                        -link /FORCE:MULTIPLE
```

C++ benchmarks:

```
 471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
            -Qopt-ra-region-strategy=block -Qcxx_features /F512000000
            shlw32mt.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
            shlw32mt.lib libguide40.lib
                        -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
            -Qcxx_features /F512000000 shlw32mt.lib libguide40.lib
                        -link /FORCE:MULTIPLE
```

Peak Other Flags

C benchmarks:

```
    403.gcc: -Dalloca=_alloca
```

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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.20090714.01.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.20090714.01.xml`

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

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