SPEC® CINT2006 Result
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Dell Inc.

Dell Precision T3400 (Intel E6850, 3.00 GHz)

SPECint®2006 = 21.3

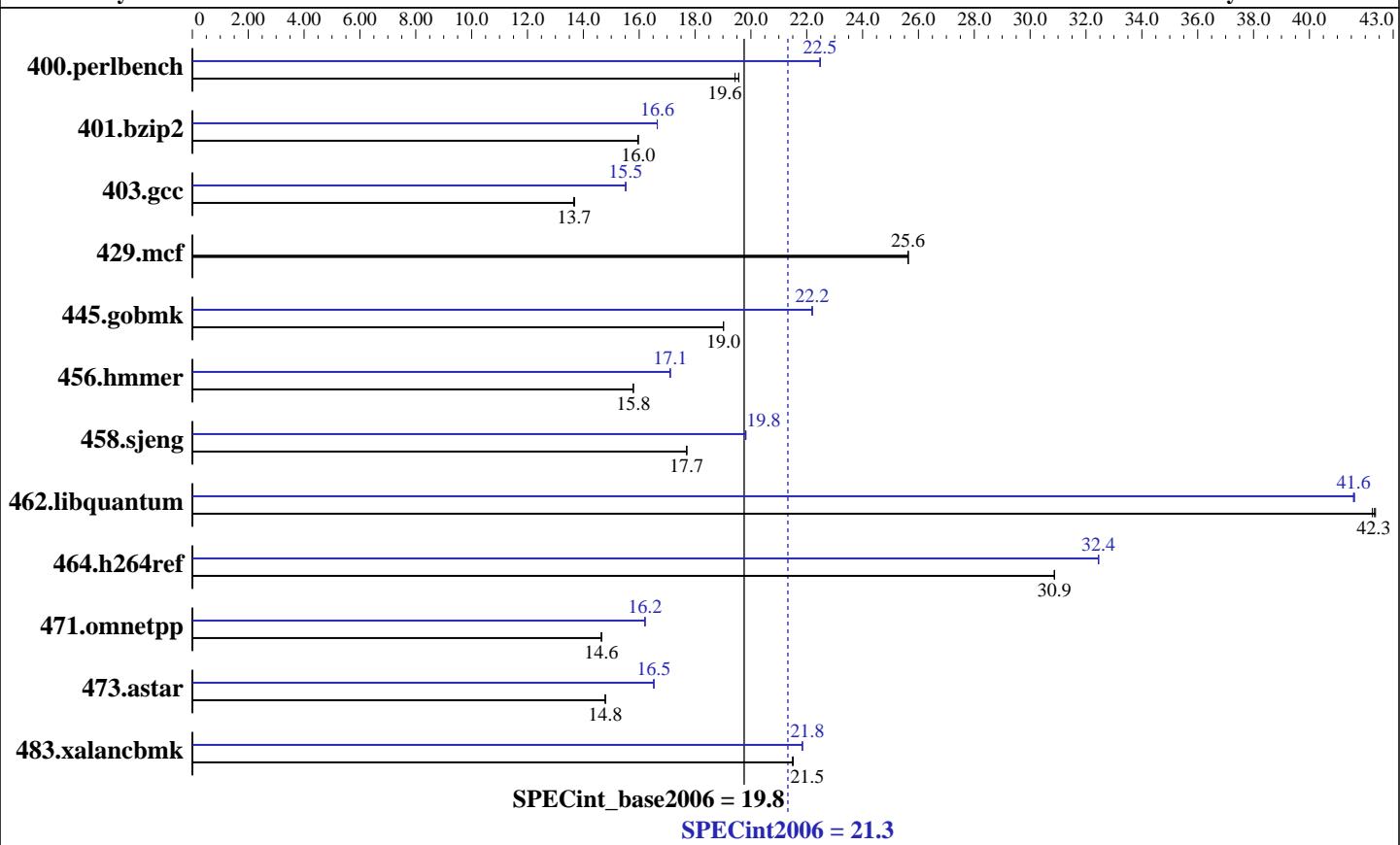SPECint_base2006 = 19.8

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

Test date: Nov-2007
Hardware Availability: Oct-2007
Software Availability: Nov-2007

Benchmark	Peak	Base
400.perlbench	22.5	19.6
401.bzip2	16.6	16.0
403.gcc	15.5	13.7
429.mcf		25.6
445.gobmk	22.2	19.0
456.hmmer	17.1	15.8
458.sjeng	19.8	17.7
462.libquantum	41.6	42.3
464.h264ref	32.4	30.9
471.omnetpp	16.2	14.6
473.astar	16.5	14.8
483.xalancbmk	21.8	21.5

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Hardware

CPU Name:	Intel Core 2 Duo E6850
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 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 (4x1 GB 800 MHz ECC CL6 DDR2)
Disk Subsystem:	1 x 80 GB 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 8.0

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	503	19.4	499	19.6	**499**	**19.6**	**435**	**22.5**	435	22.5	435	22.5
401.bzip2	605	16.0	604	16.0	**604**	**16.0**	580	16.6	580	16.6	**580**	**16.6**
403.gcc	588	13.7	**589**	**13.7**	590	13.7	**519**	**15.5**	519	15.5	519	15.5
429.mcf	356	25.6	356	25.6	**356**	**25.6**	356	25.6	356	25.6	**356**	**25.6**
445.gobmk	**552**	**19.0**	552	19.0	552	19.0	473	22.2	472	22.2	**473**	**22.2**
456.hmmer	**591**	**15.8**	591	15.8	591	15.8	**545**	**17.1**	545	17.1	545	17.1
458.sjeng	684	17.7	**684**	**17.7**	684	17.7	610	19.8	**611**	**19.8**	611	19.8
462.libquantum	489	42.4	**490**	**42.3**	490	42.3	**498**	**41.6**	498	41.6	498	41.6
464.h264ref	**717**	**30.9**	717	30.9	717	30.9	682	32.4	**682**	**32.4**	682	32.5
471.omnetpp	427	14.6	427	14.6	**427**	**14.6**	**386**	**16.2**	386	16.2	386	16.2
473.astar	**475**	**14.8**	475	14.8	475	14.8	**425**	**16.5**	425	16.5	425	16.5
483.xalancbmk	321	21.5	**321**	**21.5**	321	21.5	316	21.8	316	21.8	**316**	**21.8**

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`

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