SPEC® CINT2006 Result

Dell Inc.

SPECint®2006 = 24.6

Dell Precision T3400 (Intel QX9650, 3.00 GHz)

SPECint_base2006 = 21.6

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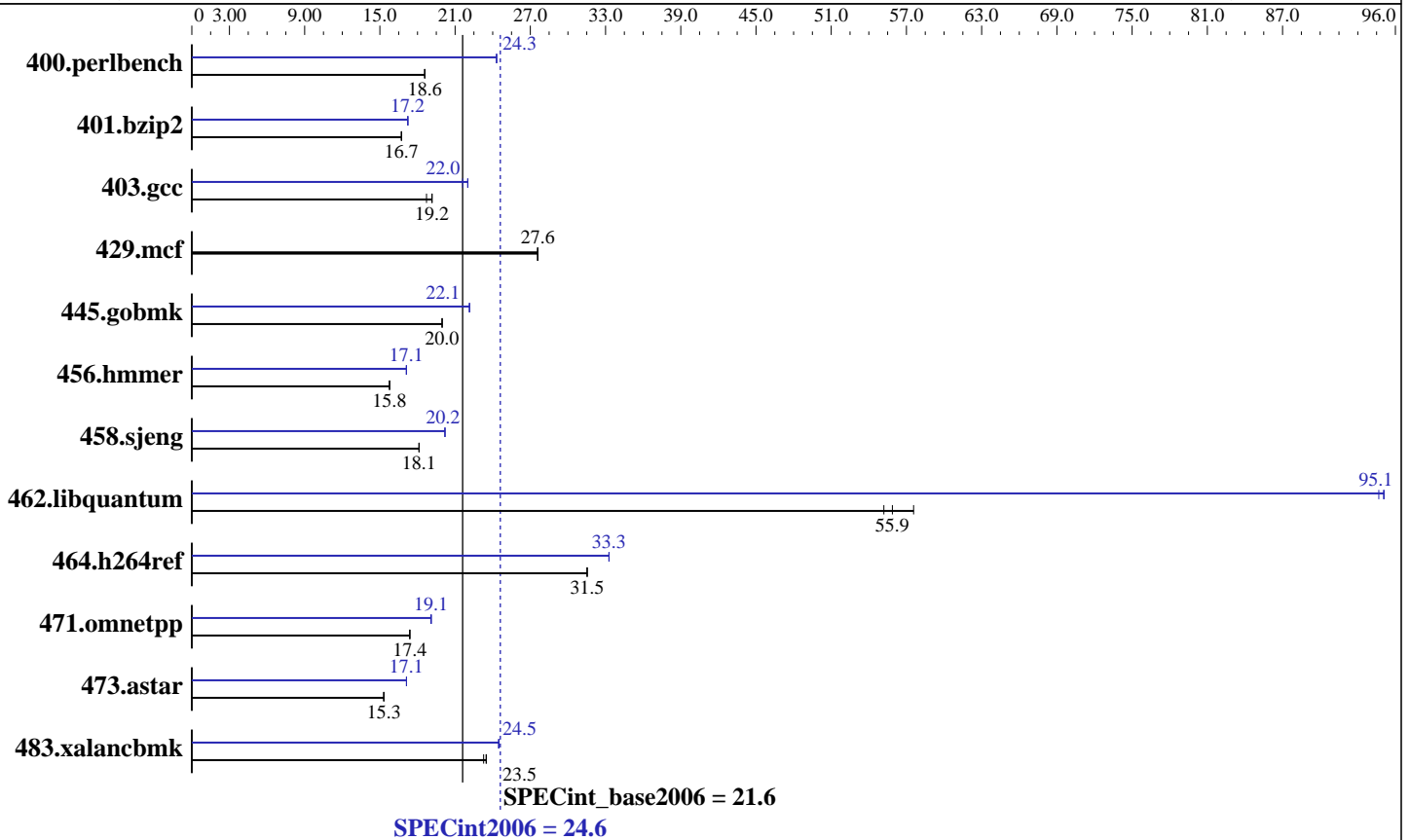**Test sponsor:** Dell Inc.
Tested by: Dell Inc.

Test date: Apr-2008
Hardware Availability: Jan-2008
Software Availability: Mar-2008

Benchmark	Peak	Base
400.perlbench	24.3	18.6
401.bzip2	17.2	16.7
403.gcc	22.0	19.2
429.mcf		27.6
445.gobmk	22.1	20.0
456.hmmer	17.1	15.8
458.sjeng	20.2	18.1
462.libquantum	95.1	55.9
464.h264ref	33.3	31.5
471.omnetpp	19.1	17.4
473.astar	17.1	15.3
483.xalancbmk	24.5	23.5

SPECint_base2006 = 21.6
SPECint2006 = 24.6

Hardware

CPU Name:	Intel Core 2 Extreme QX9650
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (4x2 GB 800 MHz ECC CL6 DDR2)
Disk Subsystem:	1 x 160 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Ultimate (64-bit)
Compiler:	Intel C++ Compiler for IA-32, Version 10.1 Build 20080312 Package ID: w_cc_p_10.1.021 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 Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	526	18.6	**526**	**18.6**	526	18.6	402	24.3	402	24.3	**402**	**24.3**
401.bzip2	577	16.7	**577**	**16.7**	578	16.7	**560**	**17.2**	560	17.2	560	17.2
403.gcc	**420**	**19.2**	420	19.2	430	18.7	366	22.0	**366**	**22.0**	373	21.6
429.mcf	**331**	**27.6**	331	27.6	330	27.6	**331**	**27.6**	331	27.6	330	27.6
445.gobmk	525	20.0	525	20.0	**525**	**20.0**	**474**	**22.1**	474	22.2	474	22.1
456.hmmer	591	15.8	592	15.8	**592**	**15.8**	545	17.1	545	17.1	**545**	**17.1**
458.sjeng	667	18.1	668	18.1	**668**	**18.1**	**599**	**20.2**	599	20.2	599	20.2
462.libquantum	**371**	**55.9**	360	57.6	375	55.2	218	95.1	**218**	**95.1**	219	94.7
464.h264ref	**702**	**31.5**	702	31.5	702	31.5	665	33.3	**665**	**33.3**	665	33.3
471.omnetpp	360	17.4	359	17.4	**359**	**17.4**	327	19.1	328	19.1	**327**	**19.1**
473.astar	458	15.3	**458**	**15.3**	459	15.3	410	17.1	**410**	**17.1**	410	17.1
483.xalancbmk	**294**	**23.5**	294	23.5	296	23.3	**282**	**24.5**	282	24.5	282	24.5

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

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
libguide40.lib
```

C++ benchmarks:
```
-fast -Qcxx_features /F512000000 shlw32m.lib libguide40.lib
          -link /FORCE:MULTIPLE
```

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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
                shlw32m.lib libguide40.lib   -link /FORCE:MULTIPLE

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

    403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
                libguide40.lib

    429.mcf: basepeak = yes

    445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
                -Qprec-div- -Qansi-alias /F512000000

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

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

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Peak Optimization Flags (Continued)

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

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

C++ benchmarks:

```
   471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
                -Qopt-ra-region-strategy=block -Qcxx_features /F512000000
                shlw32m.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
                shlw32m.lib libguide40.lib          -link /FORCE:MULTIPLE

 483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
                -Qcxx_features /F512000000 shlw32m.lib libguide40.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.ic10.1.windows.flags.20090714.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.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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