SPEC® CINT2006 Result
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Dell Inc.

Dell Precision T7400 (Intel Xeon X5492, 3.40 GHz)

SPECint®2006 = 30.2

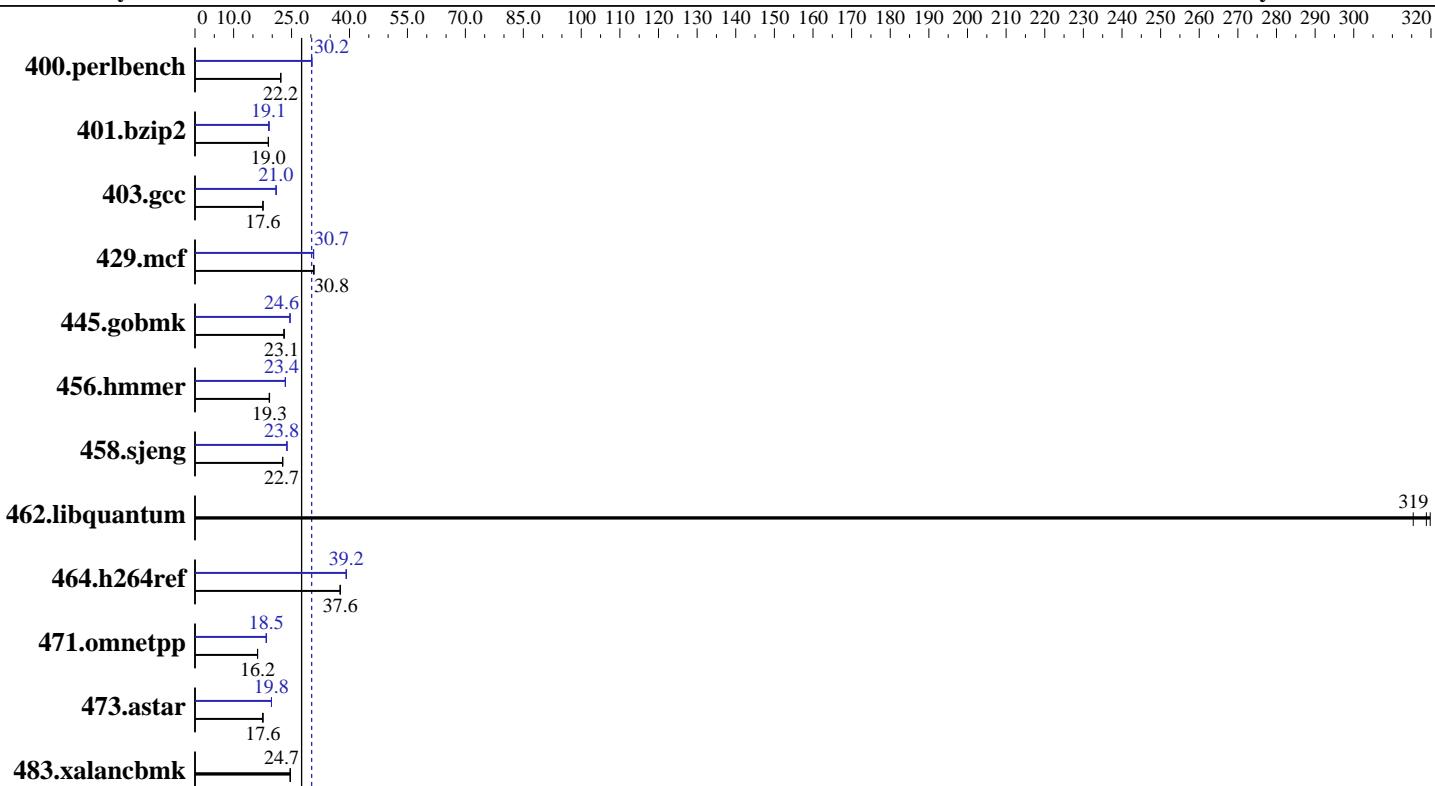SPECint_base2006 = 27.6

CPU2006 license: 55

Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Nov-2008

Hardware Availability: Sep-2008

Software Availability: Nov-2008

Benchmark	Peak	Base
400.perlbench	30.2	22.2
401.bzip2	19.1	19.0
403.gcc	21.0	17.6
429.mcf	30.7	30.8
445.gobmk	24.6	23.1
456.hmmer	23.4	19.3
458.sjeng	23.8	22.7
462.libquantum		319
464.h264ref	39.2	37.6
471.omnetpp	18.5	16.2
473.astar	19.8	17.6
483.xalancbmk		24.7

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Hardware

CPU Name:	Intel Xeon X5492
CPU Characteristics:	1600 MHz Bus Speed
CPU MHz:	3400
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
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:	16 GB (8x2 GB DDR2-800 FB-DIMM, CL5)
Disk Subsystem:	1 x 80 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Business SP1 (64-bit)
Compiler:	Intel C++ Compiler for IA-32, Version 11.0 Build 20080930 Package ID: w_cproc_p_11.0.061 Microsoft Visual Studio 2008 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	441	22.2	**441**	**22.2**	440	22.2	323	30.3	**323**	**30.2**	323	30.2
401.bzip2	507	19.0	**507**	**19.0**	507	19.0	504	19.1	504	19.2	**504**	**19.1**
403.gcc	**457**	**17.6**	456	17.6	457	17.6	383	21.0	383	21.0	**383**	**21.0**
429.mcf	297	30.8	297	30.7	**297**	**30.8**	**297**	**30.7**	297	30.7	297	30.7
445.gobmk	455	23.0	455	23.1	**455**	**23.1**	**427**	**24.6**	427	24.6	427	24.6
456.hmmer	485	19.3	485	19.2	**485**	**19.3**	399	23.4	**399**	**23.4**	399	23.4
458.sjeng	533	22.7	533	22.7	**533**	**22.7**	**508**	**23.8**	508	23.8	508	23.8
462.libquantum	**65.0**	**319**	65.7	315	64.8	320	**65.0**	**319**	65.7	315	64.8	320
464.h264ref	589	37.6	**589**	**37.6**	589	37.6	565	39.2	**565**	**39.2**	566	39.1
471.omnetpp	385	16.2	**386**	**16.2**	386	16.2	339	18.4	**338**	**18.5**	338	18.5
473.astar	400	17.6	**400**	**17.6**	400	17.5	**355**	**19.8**	354	19.8	355	19.8
483.xalancbmk	280	24.6	279	24.7	**280**	**24.7**	280	24.6	279	24.7	**280**	**24.7**

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)

    BIOS Settings
      Adjacent Cache Line Prefetch set to ON

Base Compiler Invocation

C benchmarks:
```
icl -Qvc9 -Qstd=c99
```

C++ benchmarks:
```
icl -Qvc9
```

Base Portability Flags

```
      403.gcc: -DSPEC_CPU_WIN32
  464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword
```

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Base Optimization Flags

C benchmarks:

```
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qpar-runtime-control -Qvec-guard-write /F512000000
```

C++ benchmarks:

```
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx_features
/F512000000 shlw32m.lib            -link /FORCE:MULTIPLE
```

Base Other Flags

C benchmarks:

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

Peak Compiler Invocation

C benchmarks:
```
icl -Qvc9 -Qstd=c99
```

C++ benchmarks:
```
icl -Qvc9
```

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) -QxSSE4.1 -Qprof_use(pass 2) -Qipo -O3
               -Qprec-div- -Qansi-alias -Qopt-prefetch /F512000000
               shlw32m.lib               -link /FORCE:MULTIPLE

    401.bzip2: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
               -Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
               /F512000000

      403.gcc: -Qprof_gen(pass 1) -QxSSE4.1 -Qprof_use(pass 2) -Qipo -O3
               -Qprec-div- /F512000000
```

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Peak Optimization Flags (Continued)

429.mcf: `-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch`
`/F512000000`

445.gobmk: `-Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)`
`-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000`

456.hmmer: `-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias`
`/F512000000`

458.sjeng: `-Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)`
`-Qipo -O3 -Qprec-div- -Qunroll4 /F512000000`

462.libquantum: `basepeak = yes`

464.h264ref: `-Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)`
`-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000`

C++ benchmarks:

471.omnetpp: `-Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)`
`-Qipo -O3 -Qprec-div- -Qansi-alias`
`-Qopt-ra-region-strategy=block /F512000000 shlw32m.lib`
`-link /FORCE:MULTIPLE`

473.astar: `-Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)`
`-Qipo -O3 -Qprec-div- -Qansi-alias`
`-Qopt-ra-region-strategy=routine /F512000000 shlw32m.lib`
`-link /FORCE:MULTIPLE`

483.xalancbmk: `basepeak = yes`

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.ic11.0.windows.flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.ic11.0.windows.flags.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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