SPEC® CINT2006 Result

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Dell Inc.

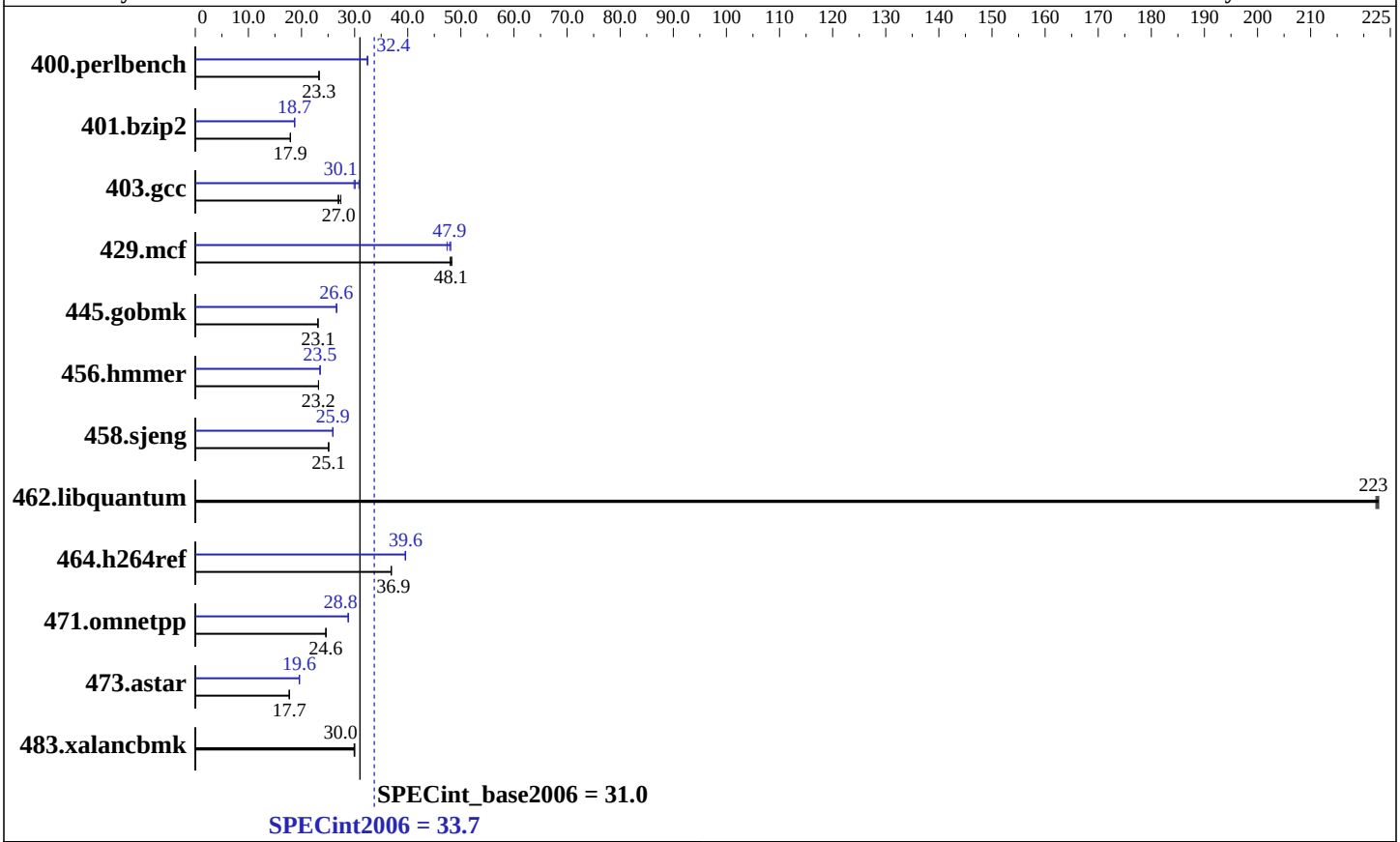
Dell Precision T3500 (Intel Xeon X5570, 2.93 GHz)

SPECint®2006 = 33.7

SPECint_base2006 = 31.0

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

Test date: Mar-2009
Hardware Availability: Apr-2009
Software Availability: Feb-2009



Hardware

CPU Name:	Intel Xeon X5570
CPU Characteristics:	Intel Turbo Boost Technology up to 3.33 GHz
CPU MHz:	2933
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:	256 KB I+D on chip per core
L3 Cache:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	12 GB (3x4 GB, DDR3_1333R, ECC, CL9)
Disk Subsystem:	1 x 80GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Ultimate SP1 (64-bit)
Compiler:	Intel C++ Compiler for IA-32, Version 11.0 Build 20090131 Package ID: w_cproc_p_11.0.072 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	**419**	**23.3**	420	23.3	419	23.3	**301**	**32.4**	301	32.5	301	32.4
401.bzip2	540	17.9	540	17.9	**540**	**17.9**	**517**	**18.7**	517	18.7	517	18.7
403.gcc	**298**	**27.0**	294	27.4	300	26.9	269	29.9	261	30.8	**268**	**30.1**
429.mcf	**190**	**48.1**	190	48.0	189	48.3	192	47.4	**190**	**47.9**	190	48.1
445.gobmk	454	23.1	454	23.1	**454**	**23.1**	**395**	**26.6**	395	26.6	395	26.6
456.hmmer	403	23.2	402	23.2	**403**	**23.2**	397	23.5	397	23.5	**397**	**23.5**
458.sjeng	482	25.1	**482**	**25.1**	482	25.1	468	25.9	**468**	**25.9**	468	25.9
462.libquantum	**93.1**	**223**	93.0	223	93.2	222	**93.1**	**223**	93.0	223	93.2	222
464.h264ref	600	36.9	600	36.9	**600**	**36.9**	560	39.5	559	39.6	**560**	**39.6**
471.omnetpp	254	24.6	**254**	**24.6**	254	24.6	**217**	**28.8**	217	28.8	217	28.8
473.astar	397	17.7	397	17.7	**397**	**17.7**	358	19.6	**358**	**19.6**	358	19.6
483.xalancbmk	230	30.0	**230**	**30.0**	230	29.9	230	30.0	**230**	**30.0**	230	29.9

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

Platform Notes

```
BIOS Settings
  Hyper-Threading Technology set to OFF.
```

General Notes

```
Binaries were built on Windows Vista Business (64-bit)
```

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`

Base Optimization Flags

C benchmarks:
```
-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qpar-runtime-control -Qvec-guard-write /F512000000
```

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

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

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

Continued on next page

Peak Optimization Flags (Continued)

429.mcf: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

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

456.hmmer: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

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

462.libquantum: basepeak = yes

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

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -QxSSE4.2(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) -QxSSE4.2(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.20090710.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.20090710.xml

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