



SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 25.1

Dell Precision T7400 (Intel Xeon X5272, 3.40 GHz)

SPECint_base2006 = 22.4

CPU2006 license: 55

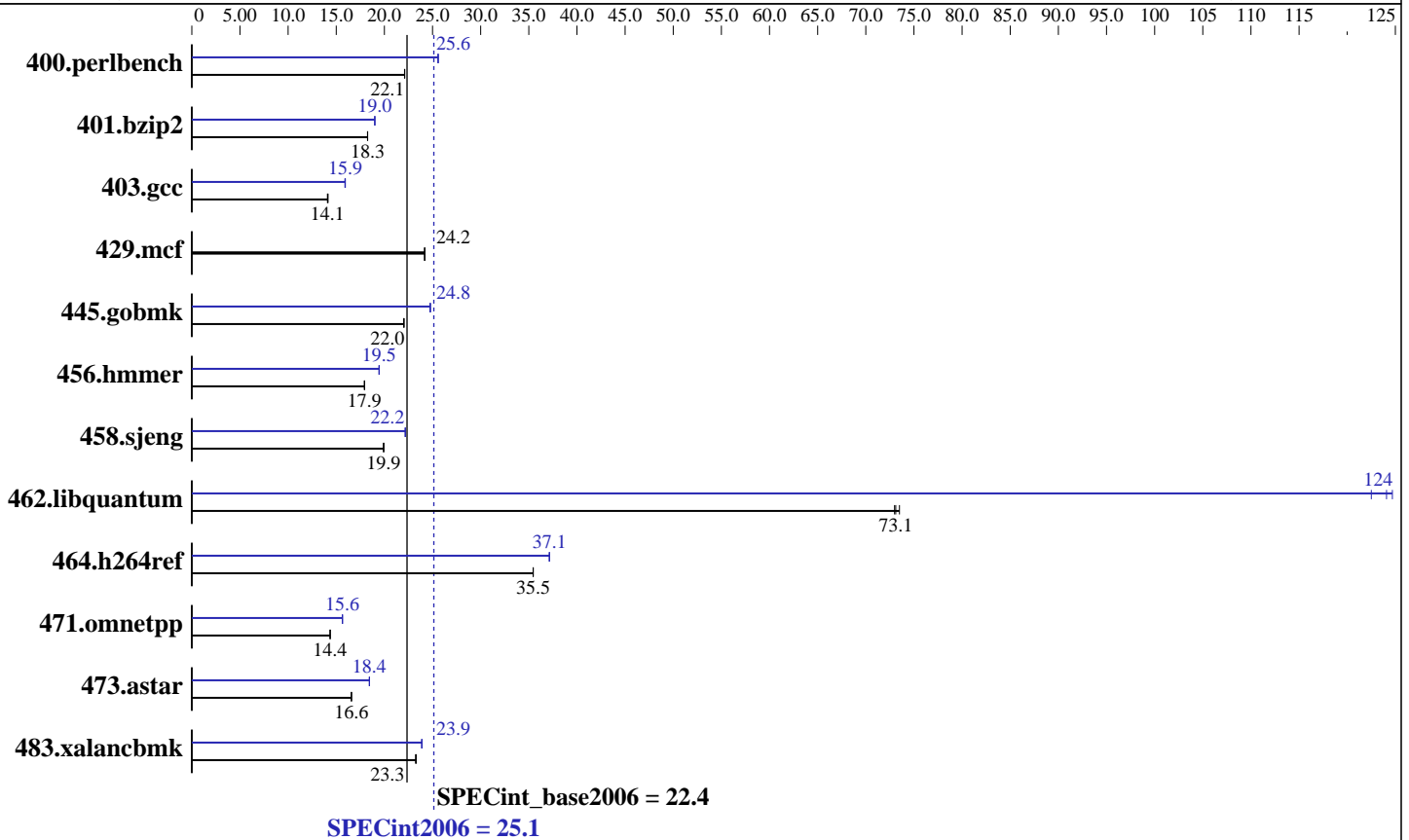
Test date: Dec-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2008

Tested by: Dell Inc.

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X5272
 CPU Characteristics: 1600 MHz Bus Speed
 CPU MHz: 3400
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 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: 8 GB (8x1 GB 800 MHz FB-DIMM CL5)
 Disk Subsystem: 1 x 73 GB SAS 15K 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	442	22.1	442	22.1	442	22.1	382	25.6	382	25.6	382	25.6
401.bzip2	528	18.3	529	18.2	529	18.3	508	19.0	508	19.0	508	19.0
403.gcc	569	14.2	571	14.1	572	14.1	506	15.9	505	15.9	505	15.9
429.mcf	377	24.2	377	24.2	377	24.2	377	24.2	377	24.2	377	24.2
445.gobmk	476	22.0	476	22.0	476	22.0	423	24.8	424	24.7	424	24.8
456.hammer	520	17.9	520	17.9	520	17.9	480	19.5	480	19.5	480	19.5
458.sjeng	608	19.9	607	19.9	607	19.9	546	22.2	546	22.2	545	22.2
462.libquantum	283	73.1	284	73.0	282	73.5	167	124	166	125	169	123
464.h264ref	624	35.5	624	35.5	624	35.5	596	37.1	596	37.1	596	37.1
471.omnetpp	435	14.4	435	14.4	435	14.4	400	15.6	399	15.6	399	15.6
473.astar	424	16.6	423	16.6	423	16.6	381	18.4	381	18.4	380	18.5
483.xalancbmk	297	23.3	296	23.3	297	23.3	289	23.9	289	23.9	289	23.9

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 -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



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Base Optimization Flags

C benchmarks:

```
-fast -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000
shlw32mt.lib libguide40.lib -link /FORCE:MULTIPLE
```

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
```

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Peak Optimization Flags (Continued)

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

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:

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Peak Other Flags (Continued)

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.20090714.01.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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For other inquiries, please contact webmaster@spec.org.

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