



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 81.1

Dell Precision T7400 (Intel Xeon X5272, 3.40 GHz)

SPECint_rate_base2006 = 73.7

CPU2006 license: 55

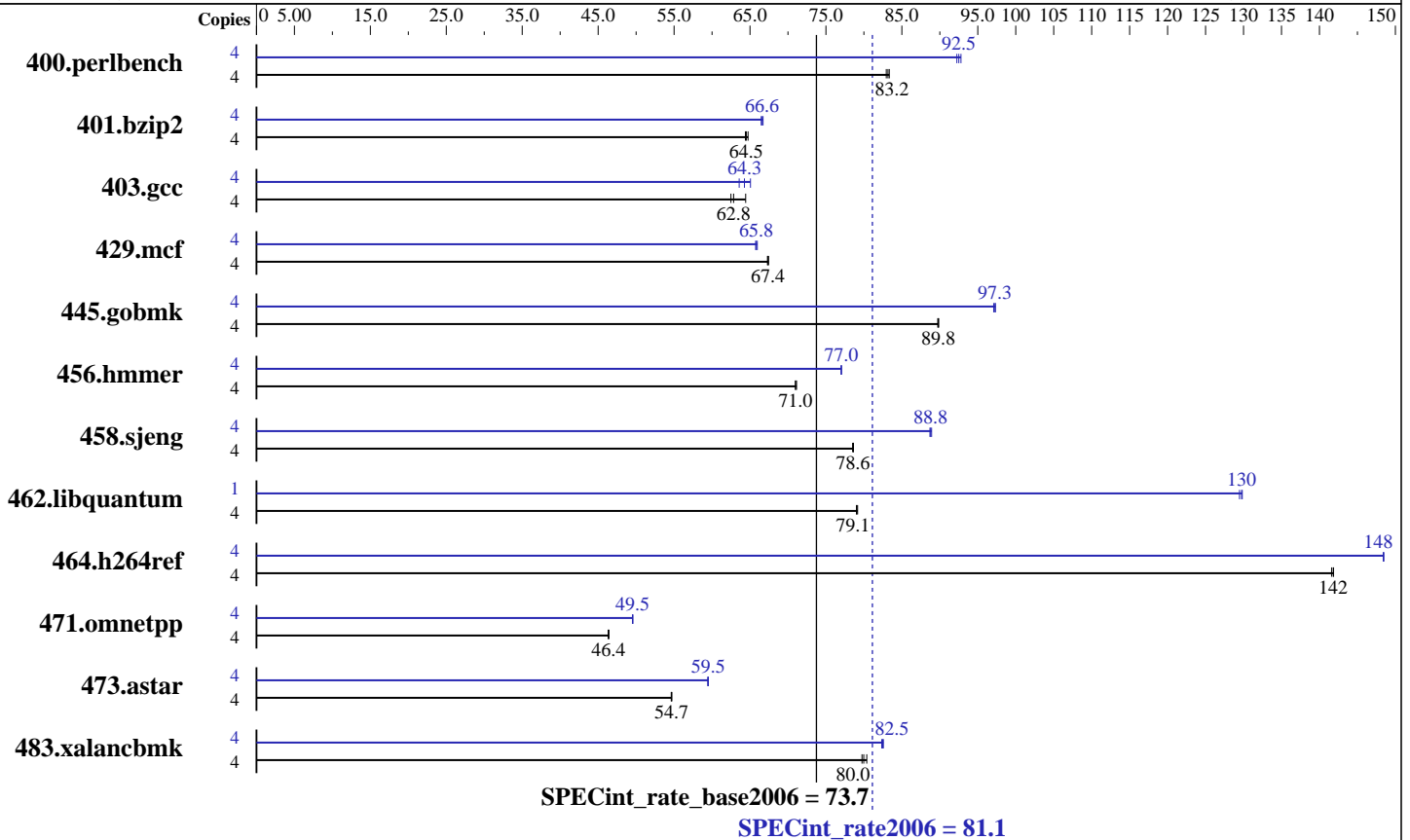
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Apr-2008

Hardware Availability: Jan-2008

Software Availability: Mar-2008



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: 16 GB (8x2 GB 800 MHz CL5 FB-DIMM)
 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							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	471	82.9	470	83.2	469	83.3	4	421	92.8	424	92.2	422	92.5
401.bzip2	4	596	64.7	599	64.4	598	64.5	4	579	66.7	581	66.5	580	66.6
403.gcc	4	512	62.8	500	64.4	515	62.5	4	501	64.3	506	63.6	495	65.1
429.mcf	4	542	67.3	541	67.4	542	67.4	4	554	65.8	555	65.7	553	66.0
445.gobmk	4	467	89.9	468	89.7	467	89.8	4	431	97.3	431	97.3	432	97.1
456.hammer	4	525	71.1	526	71.0	526	71.0	4	485	77.0	485	77.0	484	77.1
458.sjeng	4	616	78.6	616	78.6	616	78.5	4	545	88.8	544	88.9	546	88.7
462.libquantum	4	1048	79.1	1049	79.0	1047	79.2	1	160	130	160	130	160	129
464.h264ref	4	625	142	624	142	624	142	4	596	148	596	148	596	148
471.omnetpp	4	539	46.4	540	46.3	539	46.4	4	505	49.5	505	49.5	504	49.6
473.astar	4	513	54.7	513	54.7	514	54.6	4	472	59.4	472	59.5	472	59.5
483.xalancbmk	4	343	80.4	346	79.7	345	80.0	4	334	82.6	335	82.5	335	82.3

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

General Notes

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

Base Optimization Flags

C benchmarks:
-fast -Qvec-guard-write /F512000000

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Base Optimization Flags (Continued)

C++ benchmarks:

```
-fast -Qcxx_features /F512000000 shlw32m.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 /F512000000
```

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

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

```
429.mcf: Same as 401.bzip2
```

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

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Peak Optimization Flags (Continued)

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

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

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000 shlw32mt.lib

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

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 -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 -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.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>



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

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