



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 78.2

Dell Precision T3400 (Intel QX9650, 3.00 GHz)

SPECint_rate_base2006 = 73.2

CPU2006 license: 55

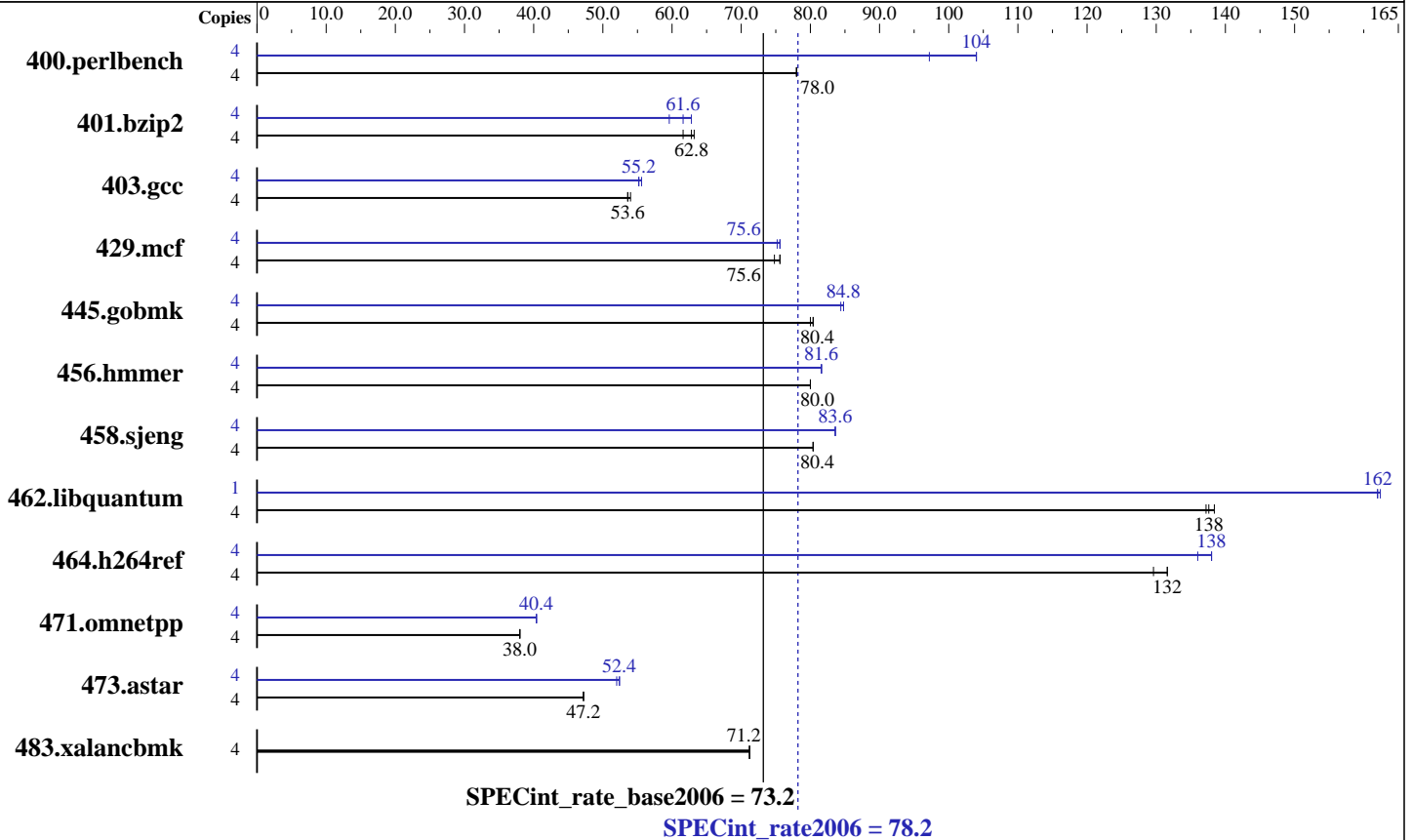
Test date: Nov-2008

Test sponsor: Dell Inc.

Hardware Availability: Jun-2008

Tested by: Dell Inc.

Software Availability: Nov-2008



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 DDR2-800 ECC, CL6)
 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 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	<u>502</u>	<u>78.0</u>	502	78.0	501	78.0	4	402	97.2	<u>376</u>	<u>104</u>	376	104
401.bzip2	4	626	61.6	<u>616</u>	<u>62.8</u>	613	63.2	4	648	59.6	<u>627</u>	<u>61.6</u>	615	62.8
403.gcc	4	603	53.6	<u>601</u>	<u>53.6</u>	595	54.0	4	578	55.6	<u>584</u>	<u>55.2</u>	585	55.2
429.mcf	4	483	75.6	<u>483</u>	<u>75.6</u>	487	74.8	4	485	75.2	<u>484</u>	<u>75.6</u>	483	75.6
445.gobmk	4	524	80.0	522	80.4	<u>522</u>	<u>80.4</u>	4	496	84.4	495	84.8	<u>495</u>	<u>84.8</u>
456.hammer	4	467	80.0	466	80.0	<u>466</u>	<u>80.0</u>	4	458	81.6	<u>458</u>	<u>81.6</u>	458	81.6
458.sjeng	4	602	80.4	<u>603</u>	<u>80.4</u>	603	80.4	4	578	83.6	<u>578</u>	<u>83.6</u>	578	83.6
462.libquantum	4	604	137	599	138	<u>603</u>	<u>138</u>	1	<u>128</u>	<u>162</u>	128	162	128	162
464.h264ref	4	684	130	673	132	<u>673</u>	<u>132</u>	4	652	136	641	138	<u>642</u>	<u>138</u>
471.omnetpp	4	<u>660</u>	<u>38.0</u>	660	38.0	660	38.0	4	<u>617</u>	<u>40.4</u>	618	40.4	617	40.4
473.astar	4	595	47.2	<u>597</u>	<u>47.2</u>	597	47.2	4	540	52.0	<u>538</u>	<u>52.4</u>	537	52.4
483.xalancbmk	4	388	71.2	388	71.2	<u>388</u>	<u>71.2</u>	4	388	71.2	388	71.2	<u>388</u>	<u>71.2</u>

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)

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

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Base Optimization Flags (Continued)

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(pass 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) -QxSSE4.1(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

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

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Peak Optimization Flags (Continued)

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

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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