



SPEC® CINT2006 Result

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Dell Inc.
(Test Sponsor: Intel Corporation)

SPECint®_rate2006 = 31.4

XPS M1730 (Intel Core 2 Extreme X7900)

SPECint_rate_base2006 = 28.3

CPU2006 license: 13

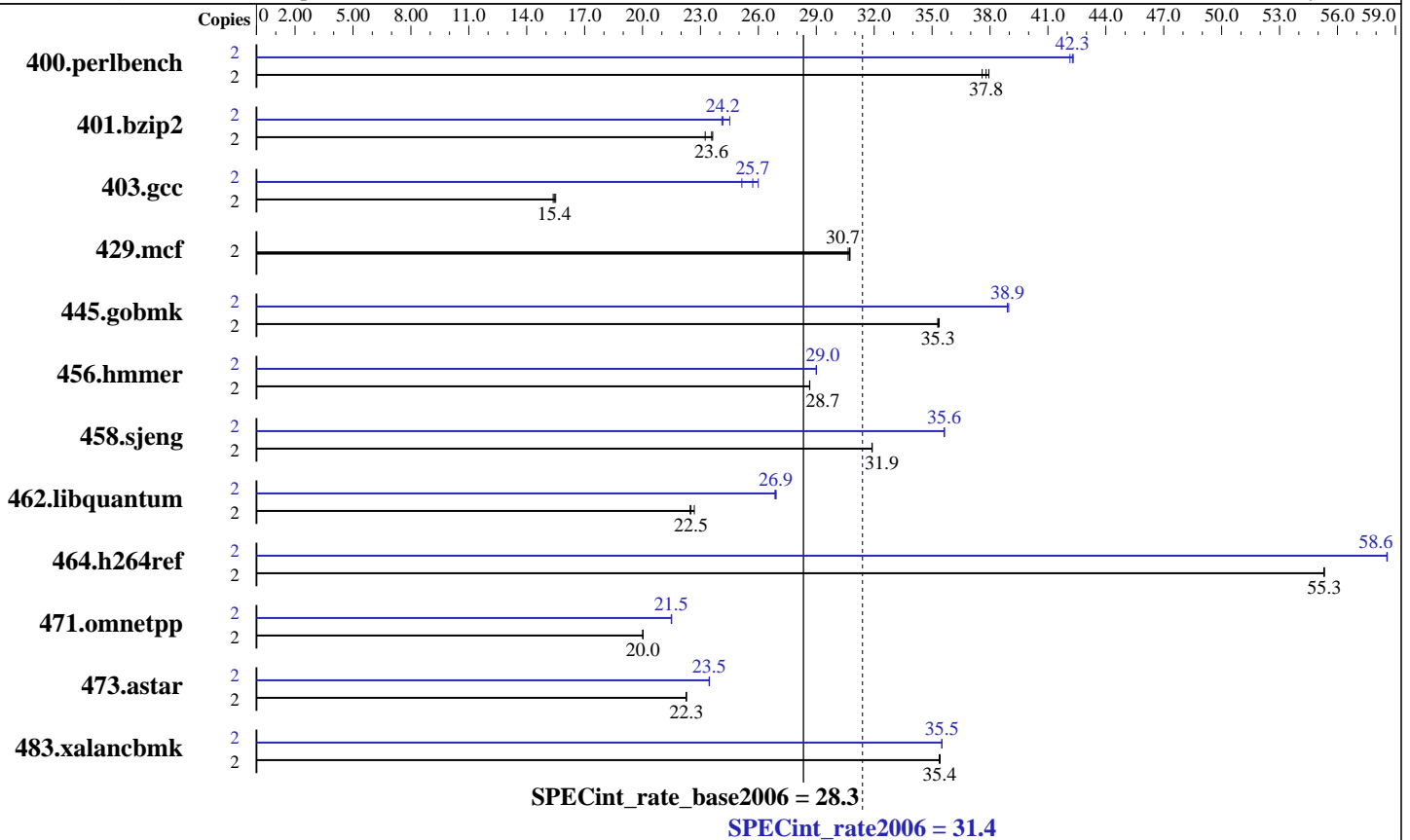
Test date: Jul-2007

Test sponsor: Intel Corporation

Hardware Availability: Aug-2007

Tested by: Intel Corporation

Software Availability: May-2007



Hardware

CPU Name: Intel Core 2 Extreme X7900
 CPU Characteristics:
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 2 GB (2x1GB Qimonda DDR2-667 CL5)
 Disk Subsystem: 80GB SATA, 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Vista Ultimate (32-bit)
 Compiler: Intel C++ Compiler for IA32 version 10.0
 Build 20070426 Package ID: W_CC_P_10.0.025
 Microsoft Visual Studio .Net 2003 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: SmartHeap Library Version 8.0 from
<http://www.microquill.com/>



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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	2	515	37.9	520	37.6	<u>517</u>	<u>37.8</u>	2	464	42.1	<u>462</u>	<u>42.3</u>	462	42.3
401.bzip2	2	830	23.2	<u>819</u>	<u>23.6</u>	817	23.6	2	800	24.1	787	24.5	<u>799</u>	<u>24.2</u>
403.gcc	2	1038	15.5	<u>1043</u>	<u>15.4</u>	1047	15.4	2	619	26.0	<u>626</u>	<u>25.7</u>	640	25.1
429.mcf	2	<u>594</u>	<u>30.7</u>	593	30.7	595	30.6	2	<u>594</u>	<u>30.7</u>	593	30.7	595	30.6
445.gobmk	2	594	35.3	593	35.4	<u>594</u>	<u>35.3</u>	2	<u>539</u>	<u>38.9</u>	539	38.9	538	39.0
456.hammer	2	<u>651</u>	<u>28.7</u>	651	28.7	651	28.7	2	644	29.0	<u>643</u>	<u>29.0</u>	643	29.0
458.sjeng	2	<u>759</u>	<u>31.9</u>	759	31.9	759	31.9	2	679	35.6	679	35.6	<u>679</u>	<u>35.6</u>
462.libquantum	2	<u>1841</u>	<u>22.5</u>	1827	22.7	1844	22.5	2	1539	26.9	<u>1541</u>	<u>26.9</u>	1543	26.9
464.h264ref	2	800	55.3	<u>800</u>	<u>55.3</u>	800	55.3	2	756	58.6	<u>756</u>	<u>58.6</u>	756	58.6
471.omnetpp	2	625	20.0	624	20.0	<u>624</u>	<u>20.0</u>	2	582	21.5	<u>582</u>	<u>21.5</u>	581	21.5
473.astar	2	<u>630</u>	<u>22.3</u>	630	22.3	631	22.3	2	598	23.5	<u>599</u>	<u>23.5</u>	599	23.5
483.xalancbmk	2	<u>390</u>	<u>35.4</u>	390	35.4	390	35.4	2	389	35.5	389	35.5	<u>389</u>	<u>35.5</u>

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

General Notes

nVidia GeForce 8700M GT discrete graphics card
Binaries were built on Windows XP Professional SP2
The start command with the /affinity switch was used to bind processes to cores

Base Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

Base Optimization Flags

C benchmarks:
-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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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 -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

Peak Optimization Flags

C benchmarks:
400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE
401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE
403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
-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

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Peak Optimization Flags (Continued)

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
-Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:

-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/Intel-ic10-ia32-intel64-linux-flags.20090714.47.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.47.xml>

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

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