



SPEC[®] CINT2006 Result

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Acer Incorporated

SPECint[®]_rate2006 = 44.3

Acer Altos G330 (Intel Xeon X3220, 2.4 GHz)

SPECint_rate_base2006 = 42.8

CPU2006 license: 97

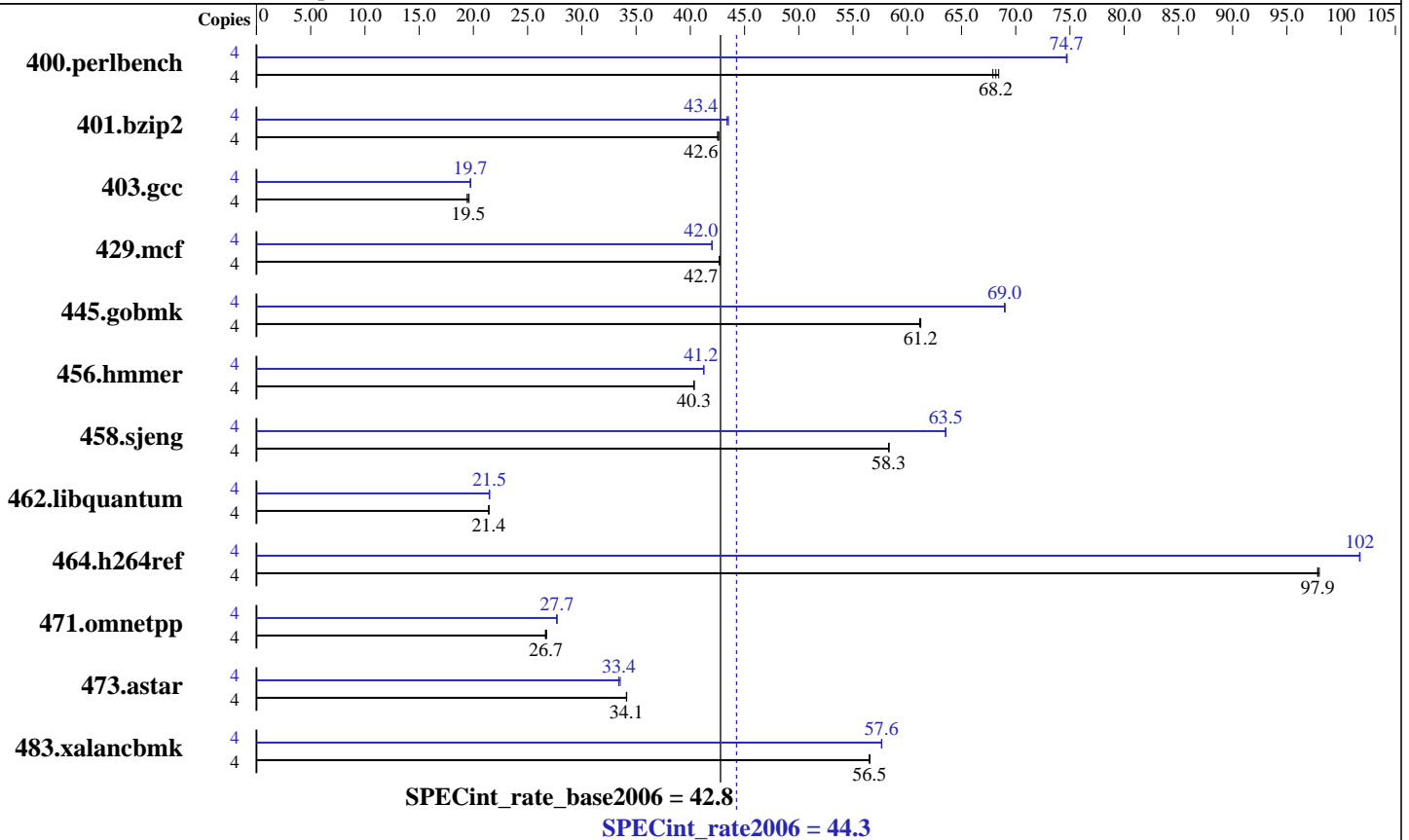
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Feb-2007

Hardware Availability: Jan-2006

Software Availability: Jul-2006



Hardware

CPU Name: Intel Xeon X3220
 CPU Characteristics: 1066MHz system bus
 CPU MHz: 2400
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4 x 1024MB ECC DDR2-667 CL5-5-5)
 Disk Subsystem: 1 x 80GB 10000RPM SATA HDD
 Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition (Build 3790), Service Pack 1
 Compiler: Intel C++ Compiler for IA32 version 9.1
 Package ID W_CC_C_9.1.028 Build 20060706Z
 Microsoft Visual Studio 2003 .Net (libr. & linker)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill Smart Heap Library, Version 7.4



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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	571	68.4	576	67.9	<u>573</u>	<u>68.2</u>	4	523	74.7	<u>523</u>	<u>74.7</u>	523	74.7
401.bzip2	4	<u>906</u>	<u>42.6</u>	906	42.6	908	42.5	4	887	43.5	889	43.4	<u>889</u>	<u>43.4</u>
403.gcc	4	1643	19.6	<u>1648</u>	<u>19.5</u>	1658	19.4	4	<u>1632</u>	<u>19.7</u>	1633	19.7	1630	19.8
429.mcf	4	854	42.7	<u>855</u>	<u>42.7</u>	855	42.7	4	869	42.0	868	42.0	<u>869</u>	<u>42.0</u>
445.gobmk	4	<u>685</u>	<u>61.2</u>	686	61.1	685	61.2	4	608	69.0	<u>608</u>	<u>69.0</u>	609	69.0
456.hammer	4	925	40.3	925	40.3	<u>925</u>	<u>40.3</u>	4	905	41.2	905	41.2	<u>905</u>	<u>41.2</u>
458.sjeng	4	<u>830</u>	<u>58.3</u>	830	58.3	830	58.3	4	<u>762</u>	<u>63.5</u>	761	63.6	762	63.5
462.libquantum	4	<u>3869</u>	<u>21.4</u>	3869	21.4	3868	21.4	4	3854	21.5	3862	21.5	<u>3860</u>	<u>21.5</u>
464.h264ref	4	903	98.0	905	97.8	<u>905</u>	<u>97.9</u>	4	870	102	<u>870</u>	<u>102</u>	870	102
471.omnetpp	4	938	26.6	935	26.8	<u>937</u>	<u>26.7</u>	4	903	27.7	902	27.7	<u>903</u>	<u>27.7</u>
473.astar	4	<u>823</u>	<u>34.1</u>	823	34.1	823	34.1	4	837	33.5	841	33.4	<u>840</u>	<u>33.4</u>
483.xalancbmk	4	488	56.5	<u>488</u>	<u>56.5</u>	488	56.6	4	479	57.6	479	57.7	<u>479</u>	<u>57.6</u>

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

General Notes

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



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Base Optimization Flags

C benchmarks:

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

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:

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

C++ benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F512000000 shlw32m.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/Acer-CPU2006-ic91-flags.20090714.html>

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

<http://www.spec.org/cpu2006/flags/Acer-CPU2006-ic91-flags.20090714.xml>

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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:53:34 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 8 March 2007.