



SPEC[®] CINT2006 Result

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Acer Incorporated

SPECint[®]_rate2006 = 72.6

Acer Altos R520 (Intel Xeon E5335, 2.0GHz)

SPECint_rate_base2006 = 67.7

CPU2006 license: 97

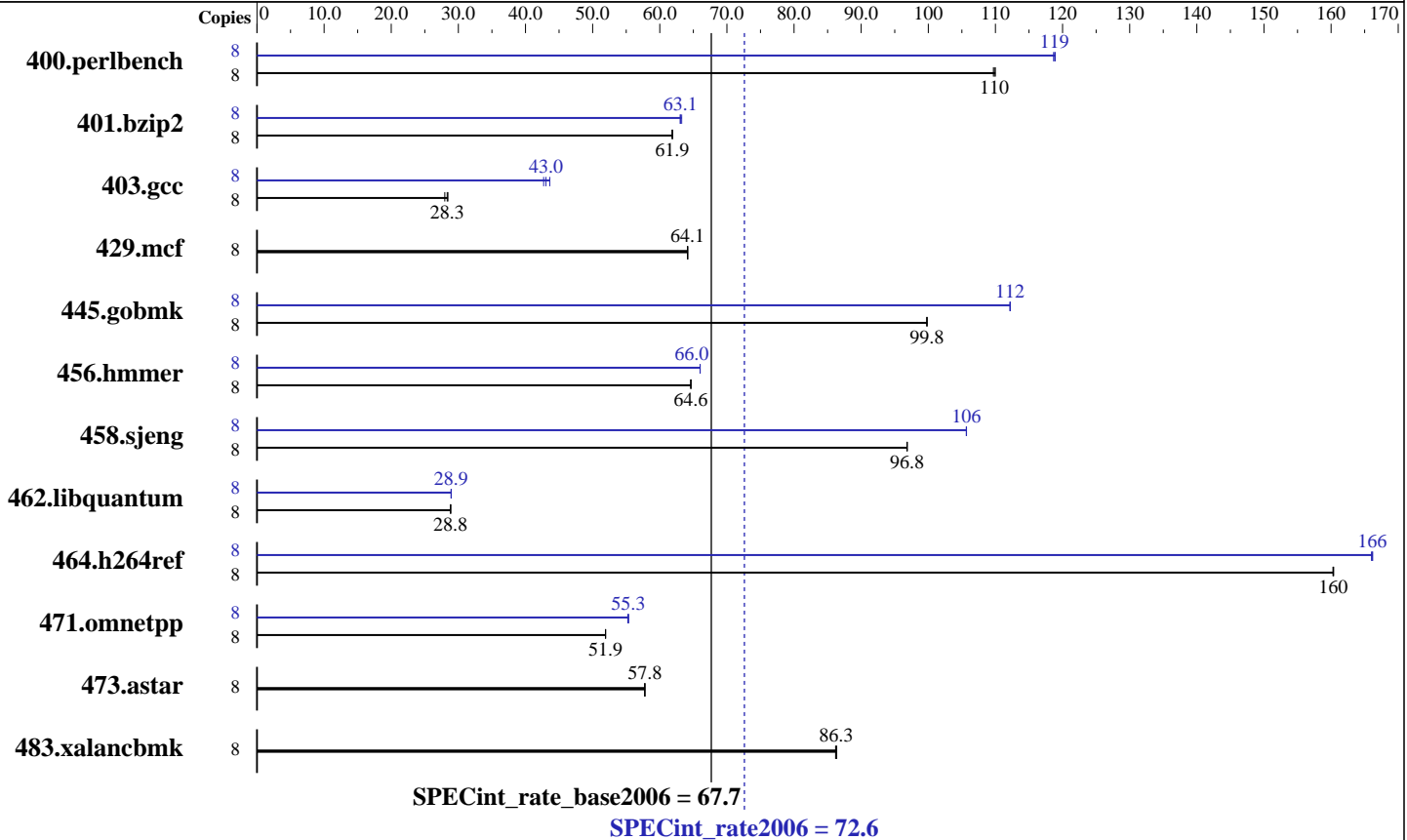
Test date: Mar-2007

Test sponsor: Acer Incorporated

Hardware Availability: Nov-2006

Tested by: Acer Incorporated

Software Availability: Jul-2006



Hardware

CPU Name: Intel Xeon E5335
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 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: 16 GB (8 x 2048MB ECC FB-DIMM DDR2-667 CL5-5-5)
 Disk Subsystem: 1 x 73GB 10000RPM SAS HDD
 Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003 Enterprise x64 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	8	711	110	713	110	<u>712</u>	<u>110</u>	8	657	119	<u>658</u>	<u>119</u>	659	119
401.bzip2	8	<u>1248</u>	<u>61.9</u>	1247	61.9	1248	61.8	8	1220	63.3	1225	63.0	<u>1224</u>	<u>63.1</u>
403.gcc	8	<u>2273</u>	<u>28.3</u>	2302	28.0	2264	28.4	8	1477	43.6	<u>1496</u>	<u>43.0</u>	1508	42.7
429.mcf	8	1138	64.1	1137	64.2	<u>1138</u>	<u>64.1</u>	8	1138	64.1	1137	64.2	<u>1138</u>	<u>64.1</u>
445.gobmk	8	841	99.8	841	99.8	<u>841</u>	<u>99.8</u>	8	<u>748</u>	<u>112</u>	748	112	748	112
456.hammer	8	1154	64.7	1155	64.6	<u>1155</u>	<u>64.6</u>	8	1131	66.0	<u>1131</u>	<u>66.0</u>	1131	66.0
458.sjeng	8	1000	96.8	<u>999</u>	<u>96.8</u>	999	96.9	8	<u>916</u>	<u>106</u>	916	106	916	106
462.libquantum	8	<u>5748</u>	<u>28.8</u>	5744	28.9	5750	28.8	8	<u>5728</u>	<u>28.9</u>	5734	28.9	5728	28.9
464.h264ref	8	1104	160	<u>1104</u>	<u>160</u>	1105	160	8	1065	166	1066	166	<u>1066</u>	<u>166</u>
471.omnetpp	8	963	51.9	<u>963</u>	<u>51.9</u>	963	51.9	8	903	55.4	<u>904</u>	<u>55.3</u>	905	55.2
473.astar	8	972	57.8	<u>972</u>	<u>57.8</u>	973	57.7	8	972	57.8	<u>972</u>	<u>57.8</u>	973	57.7
483.xalancbmk	8	640	86.2	<u>640</u>	<u>86.3</u>	639	86.4	8	640	86.2	<u>640</u>	<u>86.3</u>	639	86.4

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

General Notes

Disable hardware prefetching and disable adjacent cache line prefetch BIOS setting

This result was measured on the Acer Altos R520.
The Altos R720 and Altos R520 are electronically equivalent.

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:

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

`401.bzip2: Same as 400.perlbench`

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

`429.mcf: basepeak = yes`

`445.gobmk: Same as 400.perlbench`

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Peak Optimization Flags (Continued)

456.hmmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

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

473.astar: basepeak = yes

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/Acer-CPU2006-ic91-flags.20090714.00.html>

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

<http://www.spec.org/cpu2006/flags/Acer-CPU2006-ic91-flags.20090714.00.xml>

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