



# SPEC<sup>®</sup> CINT2006 Result

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## Acer Incorporated

SPECint<sup>®</sup>\_rate2006 = 91.5

## Acer Altos R720 (Intel Xeon E5345)

SPECint\_rate\_base2006 = 84.4

CPU2006 license: 97

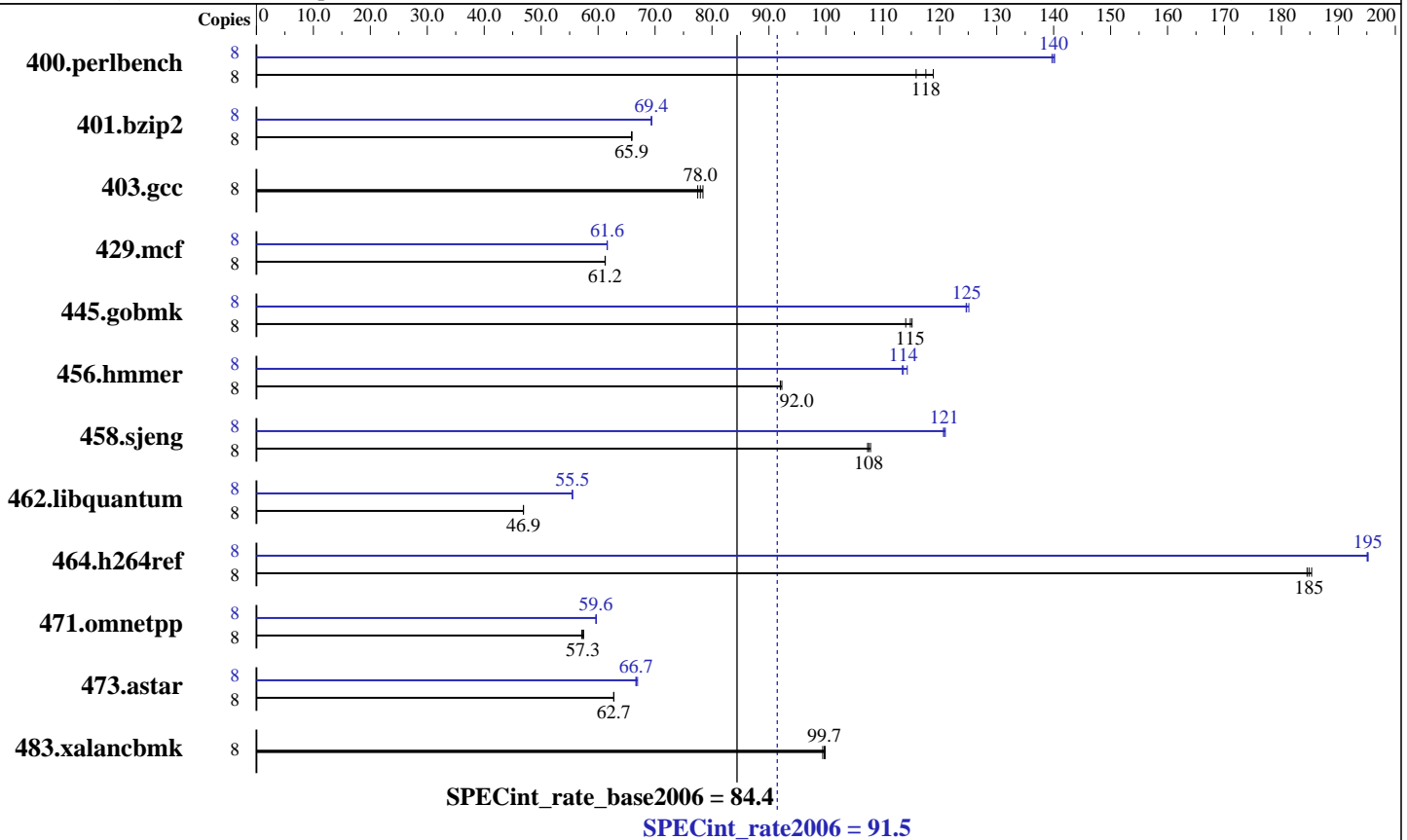
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jun-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon E5345  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2330  
 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: SuSE Linux Enterprise Server 10 EM64T (kernel 2.6.16.21-0.8-smp)  
 Compiler: Intel C++ Compiler for Linux32 and Linux64 version 10.0  
 Build 20070426 Package ID: l\_cc\_p\_10.0.023  
 Auto Parallel: No  
 File System: ReiserFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-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	8	675	116	<b>665</b>	<b>118</b>	658	119	8	559	140	558	140	<b>558</b>	<b>140</b>
401.bzip2	8	<b>1172</b>	<b>65.9</b>	1172	65.9	1171	65.9	8	1112	69.4	<b>1113</b>	<b>69.4</b>	1113	69.3
403.gcc	8	831	77.5	821	78.4	<b>826</b>	<b>78.0</b>	8	831	77.5	821	78.4	<b>826</b>	<b>78.0</b>
429.mcf	8	1191	61.3	<b>1192</b>	<b>61.2</b>	1192	61.2	8	1185	61.6	1184	61.6	<b>1184</b>	<b>61.6</b>
445.gobmk	8	<b>731</b>	<b>115</b>	729	115	736	114	8	<b>673</b>	<b>125</b>	673	125	671	125
456.hammer	8	<b>811</b>	<b>92.0</b>	809	92.3	811	92.0	8	653	114	658	113	<b>657</b>	<b>114</b>
458.sjeng	8	898	108	<b>900</b>	<b>108</b>	902	107	8	800	121	802	121	<b>801</b>	<b>121</b>
462.libquantum	8	3535	46.9	<b>3536</b>	<b>46.9</b>	3537	46.9	8	2986	55.5	2989	55.5	<b>2988</b>	<b>55.5</b>
464.h264ref	8	955	185	<b>958</b>	<b>185</b>	960	185	8	<b>907</b>	<b>195</b>	907	195	908	195
471.omnetpp	8	<b>872</b>	<b>57.3</b>	875	57.1	870	57.5	8	<b>838</b>	<b>59.6</b>	838	59.6	838	59.7
473.astar	8	895	62.7	895	62.8	<b>895</b>	<b>62.7</b>	8	843	66.7	<b>842</b>	<b>66.7</b>	839	66.9
483.xalancbmk	8	553	99.9	<b>554</b>	<b>99.7</b>	555	99.4	8	553	99.9	<b>554</b>	<b>99.7</b>	555	99.4

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

## General Notes

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

BIOS settings  
Hardware Prefetch is set to disabled  
Adjacent Cache Line Prefetch is set to disabled

taskset was used to bind copies to cores

## Base Compiler Invocation

C benchmarks:  
icc

C++ benchmarks:  
icpc

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX



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## Base Optimization Flags

C benchmarks:

-fast

C++ benchmarks:

-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/spec/cpu2006.1.0/lib -lsmartheap

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/cce/10.0.023/bin/icc  
-L/opt/intel/cce/10.0.023/lib  
-I/opt/intel/cce/10.0.023/include

456.hmmer: /opt/intel/cce/10.0.023/bin/icc  
-L/opt/intel/cce/10.0.023/lib  
-I/opt/intel/cce/10.0.023/include

C++ benchmarks:

icpc

## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
401.bzip2: -DSPEC\_CPU\_LP64  
456.hmmer: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX

## Peak Optimization Flags

C benchmarks:

Continued on next page



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## Peak Optimization Flags (Continued)

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias  
-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast

403.gcc: basepeak = yes

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo  
-no-prec\_div -ansi-alias

456.hmmer: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -Ob0  
-prefetch -opt-streaming-stores always

464.h264ref: Same as 456.hmmer

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
-no-prec\_div -ansi-alias -Wl,-z,muldefs  
-L/spec/cpu2006.1.0/lib -lsmartheap

473.astar: Same as 471.omnetpp

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/Intel-ic10-ia32-intel64-linux-flags.20090714.41.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.20090714.41.xml>



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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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