



# SPEC® CINT2006 Result

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## Acer Incorporated

SPECint®\_rate2006 = 49.5

## Acer Altos R520 (Intel Xeon E5345)

SPECint\_rate\_base2006 = 45.4

CPU2006 license: 97

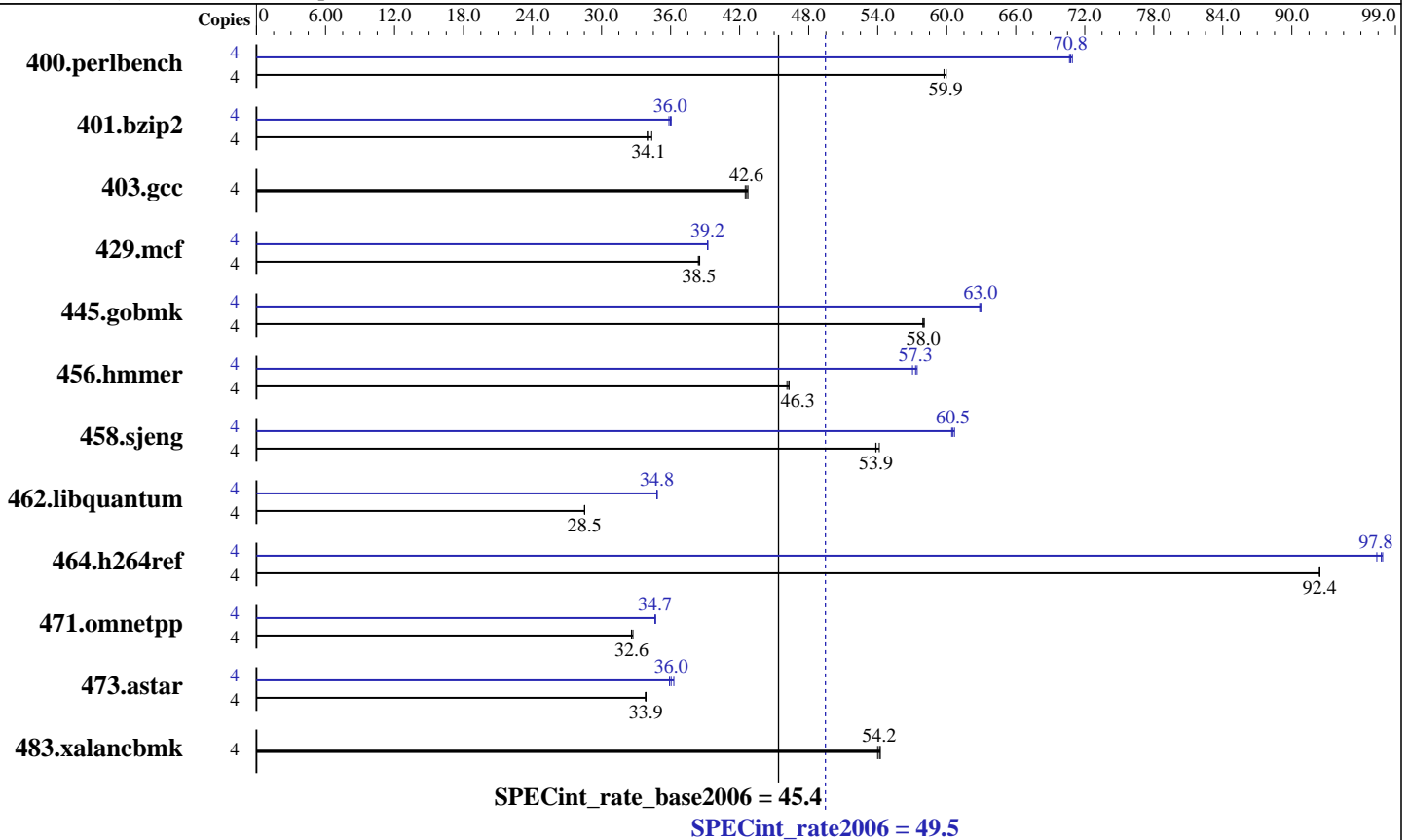
Test sponsor: Acer Incorporated

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: 4 cores, 1 chip, 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 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-bit  
 Other Software: None



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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>652</u>	<u>59.9</u>	654	59.8	652	60.0	4	553	70.7	<u>552</u>	<u>70.8</u>	551	70.9
401.bzip2	4	<u>1133</u>	<u>34.1</u>	1124	34.4	1136	34.0	4	1071	36.1	1076	35.9	<u>1073</u>	<u>36.0</u>
403.gcc	4	754	42.7	<u>756</u>	<u>42.6</u>	758	42.5	4	754	42.7	<u>756</u>	<u>42.6</u>	758	42.5
429.mcf	4	950	38.4	947	38.5	<u>948</u>	<u>38.5</u>	4	930	39.2	<u>930</u>	<u>39.2</u>	930	39.2
445.gobmk	4	724	57.9	<u>724</u>	<u>58.0</u>	723	58.1	4	<u>667</u>	<u>63.0</u>	667	63.0	667	62.9
456.hammer	4	806	46.3	809	46.1	<u>806</u>	<u>46.3</u>	4	<u>651</u>	<u>57.3</u>	650	57.4	654	57.0
458.sjeng	4	899	53.8	894	54.1	<u>899</u>	<u>53.9</u>	4	798	60.7	801	60.4	<u>799</u>	<u>60.5</u>
462.libquantum	4	<u>2905</u>	<u>28.5</u>	2907	28.5	2905	28.5	4	2381	34.8	2380	34.8	<u>2380</u>	<u>34.8</u>
464.h264ref	4	<u>958</u>	<u>92.4</u>	958	92.4	958	92.4	4	909	97.4	904	97.9	<u>905</u>	<u>97.8</u>
471.omnetpp	4	767	32.6	<u>767</u>	<u>32.6</u>	764	32.7	4	721	34.7	<u>721</u>	<u>34.7</u>	722	34.6
473.astar	4	831	33.8	<u>829</u>	<u>33.9</u>	829	33.9	4	<u>779</u>	<u>36.0</u>	782	35.9	774	36.3
483.xalanbmk	4	511	54.0	<u>510</u>	<u>54.2</u>	509	54.2	4	511	54.0	<u>510</u>	<u>54.2</u>	509	54.2

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.

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.xalanbmk: -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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