



# SPEC® CINT2006 Result

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## Acer Incorporated

## SPECint®\_rate2006 = Not Run

## Acer Altos R520 (Intel Xeon X5470)

## SPECint\_rate\_base2006 = 137

CPU2006 license: 97

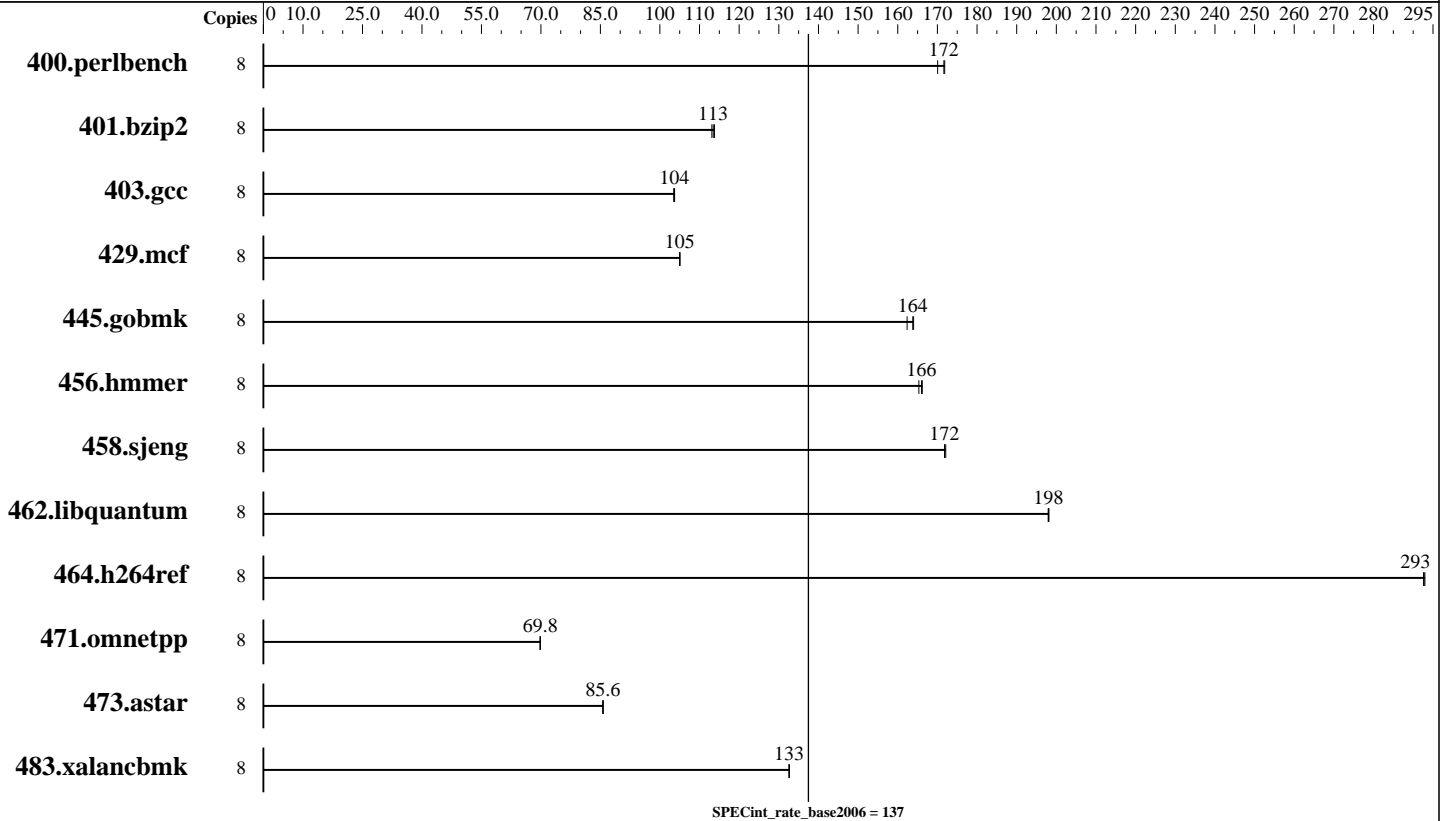
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Dec-2008

Hardware Availability: Sep-2008

Software Availability: Nov-2008



### Hardware

CPU Name: Intel Xeon X5470  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 3333  
 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: 12 MB I+D on chip per chip, 6 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 10K RPM SAS HDD  
 Other Hardware: None

### Software

Operating System: SUSE Linux Enterprise Server 10 (x86\_64) SP1, Kernel 2.6.16.46-0.12-smp  
 Compiler: Intel C++ Compiler 11.0 for Linux Build 20080930 Package ID: l\_cproc\_p\_11.0.066  
 Auto Parallel: No  
 File System: ReiserFS  
 System State: Multi-user, level 3  
 Base Pointers: 32-bit  
 Peak Pointers: Not Applicable  
 Other Software: Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502



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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	460	170	<u>455</u>	<u>172</u>	455	172							
401.bzip2	8	682	113	679	114	<u>680</u>	<u>113</u>							
403.gcc	8	622	103	621	104	<u>621</u>	<u>104</u>							
429.mcf	8	694	105	695	105	<u>695</u>	<u>105</u>							
445.gobmk	8	517	162	<u>512</u>	<u>164</u>	512	164							
456.hammer	8	451	165	449	166	<u>450</u>	<u>166</u>							
458.sjeng	8	<u>563</u>	<u>172</u>	563	172	562	172							
462.libquantum	8	837	198	<u>837</u>	<u>198</u>	837	198							
464.h264ref	8	604	293	<u>605</u>	<u>293</u>	605	293							
471.omnetpp	8	<u>716</u>	<u>69.8</u>	716	69.8	716	69.9							
473.astar	8	655	85.7	656	85.6	<u>656</u>	<u>85.6</u>							
483.xalancbmk	8	416	133	416	133	<u>416</u>	<u>133</u>							

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

## Submit Notes

The config file option 'submit' was used.

## Platform Notes

BIOS Settings  
Adjacent Cache Line Prefetch disabled  
Hardware Prefetch disabled

## General Notes

taskset was used to bind processes to cores except for 462.libquantum peak  
OMP\_NUM\_THREADS set to number of processors  
KMP\_AFFINITY set to "physical,0"  
KMP\_STACKSIZE set to 64M  
'ulimit -s unlimited' was set for stacksize unlimited  
This result was measured on the Acer Altos R520.  
The Altos R720 and Altos R520 are electronically equivalent.

## Base Compiler Invocation

C benchmarks:  
icc

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## Base Compiler Invocation (Continued)

C++ benchmarks:  
icpc

## Base Portability Flags

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

## Base Optimization Flags

C benchmarks:  
-xSSE4.1 -ipo -O3 -no-prec-div -static -inline-alloc  
-opt-malloc-options=3 -opt-prefetch

C++ benchmarks:  
-xSSE4.1 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs  
-L/spec/cpu2006.1.1/lib -lsmartheap

## Base Other Flags

C benchmarks:  
403.gcc: -Dalloca=\_alloca

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090710.04.html>  
<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090710.00.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090710.04.xml>  
<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090710.00.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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