



# SPEC® CINT2006 Result

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## Acer Incorporated

**SPECint®\_rate2006 = 30.2**

## Acer Altos R720 (Intel Xeon 5140)

**SPECint\_rate\_base2006 = 26.5**

CPU2006 license: 97

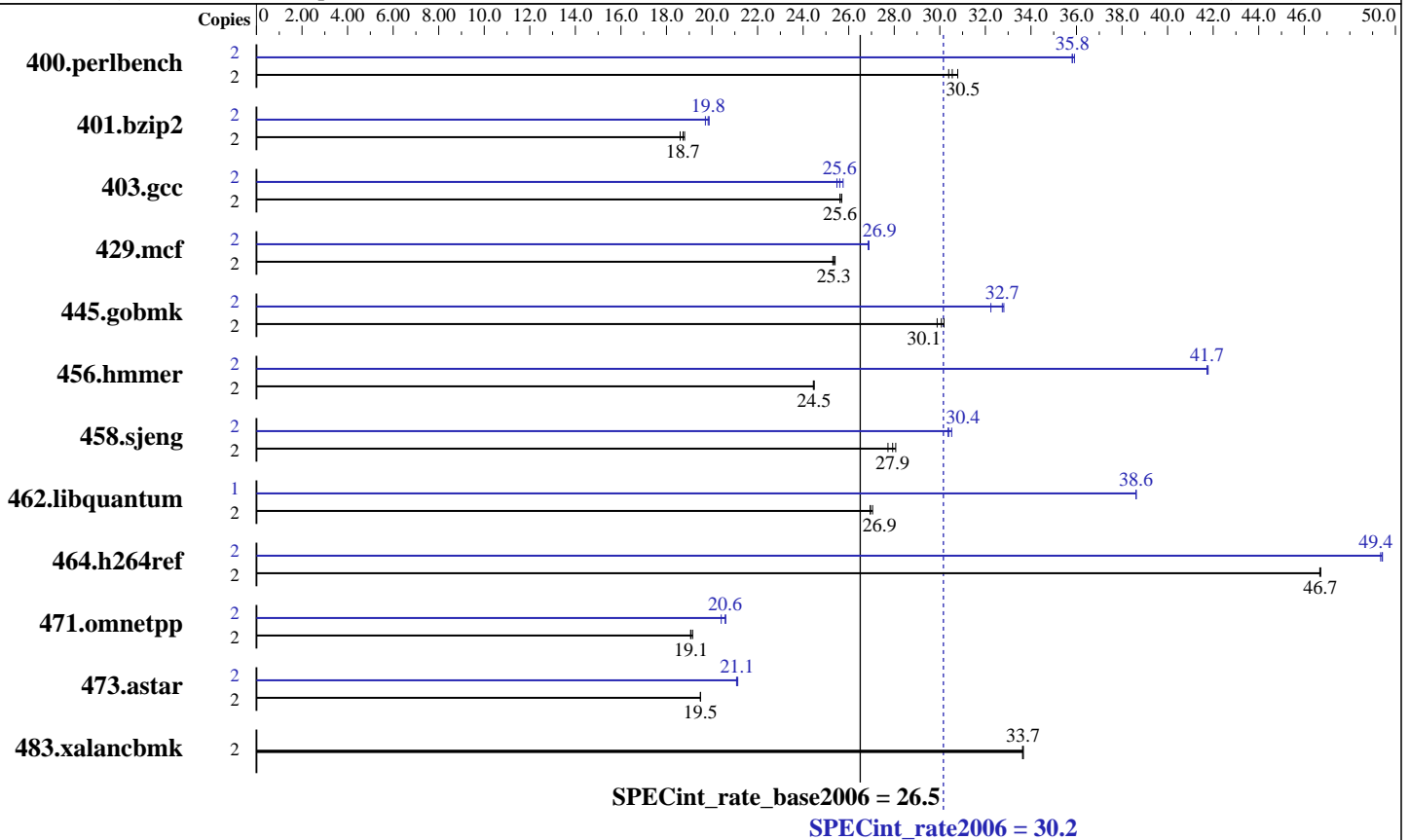
Test date: Nov-2007

Test sponsor: Acer Incorporated

Hardware Availability: Nov-2006

Tested by: Acer Incorporated

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon 5140  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2330  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1, 2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip  
 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 10000PRM SAS HDD  
 Other Hardware: None

### Software

Operating System: SuSE Linux Enterprise Server 10 SP1 EM64T (kernel 2.6.16.46-0.12-smp)  
 Compiler: Intel C++ Compiler for Linux32 and Linux64 version 10.1 Build 20070725  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Multi-user, level 3  
 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	2	<b>640</b>	<b>30.5</b>	643	30.4	635	30.8	2	544	35.9	<b>545</b>	<b>35.8</b>	546	35.8
401.bzip2	2	1038	18.6	1027	18.8	<b>1031</b>	<b>18.7</b>	2	971	19.9	979	19.7	<b>973</b>	<b>19.8</b>
403.gcc	2	628	25.6	627	25.7	<b>628</b>	<b>25.6</b>	2	<b>629</b>	<b>25.6</b>	632	25.5	625	25.8
429.mcf	2	721	25.3	718	25.4	<b>720</b>	<b>25.3</b>	2	679	26.9	<b>679</b>	<b>26.9</b>	678	26.9
445.gobmk	2	695	30.2	<b>698</b>	<b>30.1</b>	702	29.9	2	651	32.2	<b>641</b>	<b>32.7</b>	639	32.8
456.hammer	2	763	24.4	762	24.5	<b>762</b>	<b>24.5</b>	2	447	41.7	447	41.8	<b>447</b>	<b>41.7</b>
458.sjeng	2	<b>866</b>	<b>27.9</b>	862	28.1	873	27.7	2	793	30.5	<b>796</b>	<b>30.4</b>	797	30.4
462.libquantum	2	1532	27.0	1538	26.9	<b>1538</b>	<b>26.9</b>	1	<b>537</b>	<b>38.6</b>	536	38.6	537	38.6
464.h264ref	2	<b>948</b>	<b>46.7</b>	947	46.7	948	46.7	2	897	49.4	895	49.4	<b>896</b>	<b>49.4</b>
471.omnetpp	2	<b>655</b>	<b>19.1</b>	653	19.1	656	19.1	2	613	20.4	<b>607</b>	<b>20.6</b>	607	20.6
473.astar	2	720	19.5	720	19.5	<b>720</b>	<b>19.5</b>	2	666	21.1	664	21.1	<b>665</b>	<b>21.1</b>
483.xalancbmk	2	<b>410</b>	<b>33.7</b>	410	33.7	410	33.6	2	<b>410</b>	<b>33.7</b>	410	33.7	410	33.6

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 Prefetcher set to ON

Adjacent Cache Line Prefetch set to OFF

Optimization for high-frequency FSB applications set to ON

All results used taskset to bind processes to cores.

## Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc



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## Base Portability Flags

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

## Base Optimization Flags

C benchmarks:

-fast -inline-calloc -opt-malloc-options=3

C++ benchmarks:

-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/home/cmplr/usr3/alrahate/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: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc  
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib  
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

456.hmmr: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc  
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib  
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

C++ benchmarks:

icpc

## Peak Portability Flags

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

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## Peak Portability Flags (Continued)

483.xalanbmk: -DSPEC\_CPU\_LINUX

## Peak Optimization Flags

C benchmarks:

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 -prefetch

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

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

456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive

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

462.libquantum: -fast -unroll4 -Ob0 -prefetch  
-opt-streaming-stores always -vec-guard-write  
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
-no-prec-div -ansi-alias -opt-ra-region-strategy=block  
-Wl,-z,muldefs  
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine  
-Wl,-z,muldefs  
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

483.xalanbmk: basepeak = yes



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## 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.20090714.22.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.20090714.22.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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