



# SPEC® CINT2006 Result

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## Acer Incorporated

### SPECint®\_rate2006 = 78.5

## Acer Altos R920 (Intel Xeon E7320)

### SPECint\_rate\_base2006 = 71.5

CPU2006 license: 97

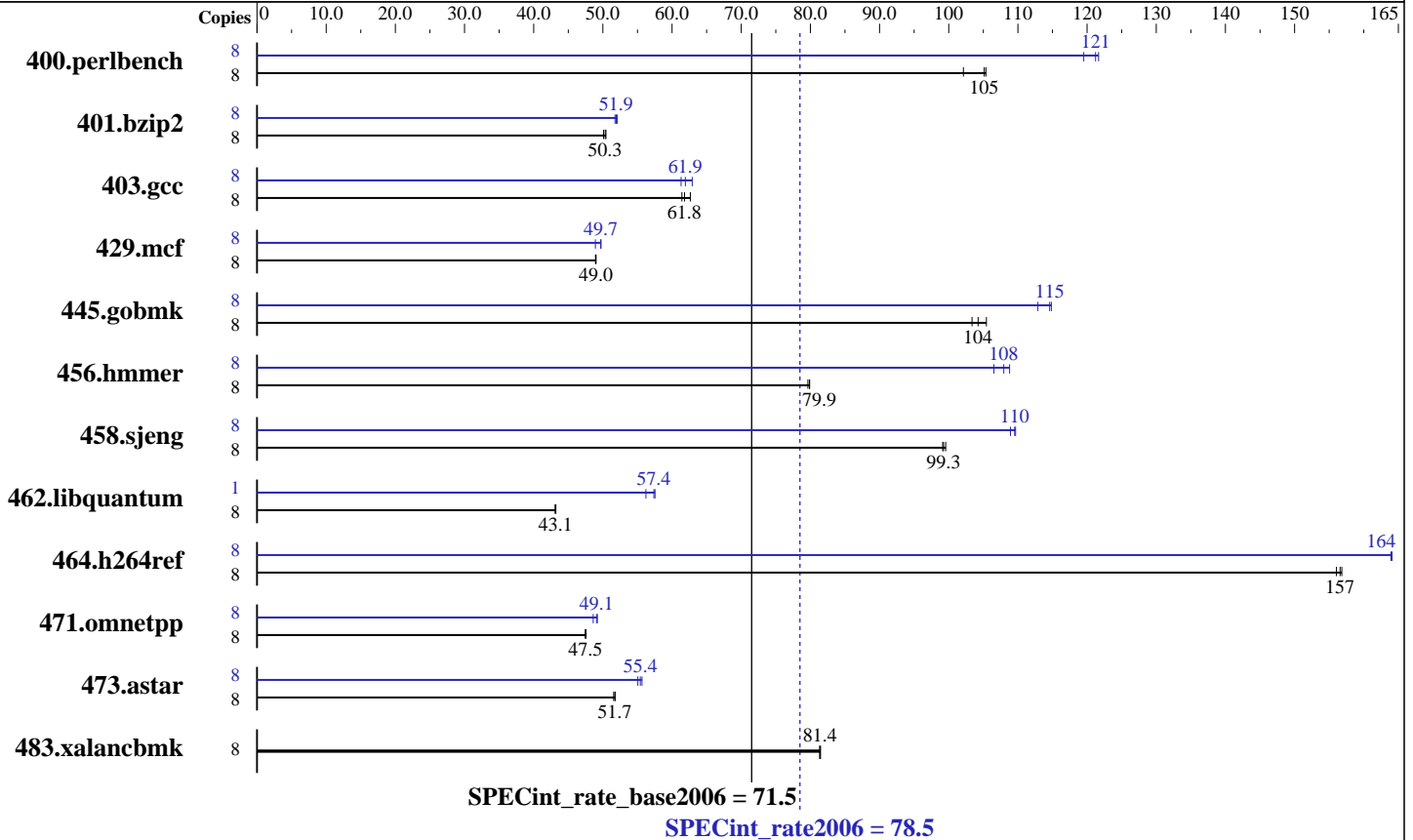
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Oct-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon E7320  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 2130  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1, 2, 3, 4 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip, 2 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 16 GB (16 x 1048MB 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 (x86\_64)  
 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  
 Binutils 2.17.50.0.15



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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	765	102	<b><u>743</u></b>	<b><u>105</u></b>	742	105	8	642	122	654	120	<b><u>645</u></b>	<b><u>121</u></b>
401.bzip2	8	1530	50.4	<b><u>1534</u></b>	<b><u>50.3</u></b>	1541	50.1	8	1492	51.8	<b><u>1487</u></b>	<b><u>51.9</u></b>	1483	52.1
403.gcc	8	<b><u>1042</u></b>	<b><u>61.8</u></b>	1048	61.4	1028	62.6	8	1050	61.3	<b><u>1040</u></b>	<b><u>61.9</u></b>	1024	62.9
429.mcf	8	1489	49.0	<b><u>1490</u></b>	<b><u>49.0</u></b>	1491	48.9	8	1491	48.9	<b><u>1468</u></b>	<b><u>49.7</u></b>	1467	49.7
445.gobmk	8	796	105	812	103	<b><u>805</u></b>	<b><u>104</u></b>	8	743	113	<b><u>732</u></b>	<b><u>115</u></b>	731	115
456.hammer	8	<b><u>935</u></b>	<b><u>79.9</u></b>	937	79.6	934	79.9	8	701	107	<b><u>691</u></b>	<b><u>108</u></b>	686	109
458.sjeng	8	977	99.1	<b><u>975</u></b>	<b><u>99.3</u></b>	972	99.6	8	889	109	883	110	<b><u>884</u></b>	<b><u>110</u></b>
462.libquantum	8	3837	43.2	<b><u>3842</u></b>	<b><u>43.1</u></b>	3846	43.1	1	369	56.2	<b><u>361</u></b>	<b><u>57.4</u></b>	360	57.5
464.h264ref	8	<b><u>1131</u></b>	<b><u>157</u></b>	1129	157	1134	156	8	1080	164	1079	164	<b><u>1080</u></b>	<b><u>164</u></b>
471.omnetpp	8	1051	47.6	<b><u>1053</u></b>	<b><u>47.5</u></b>	1053	47.5	8	1029	48.6	<b><u>1019</u></b>	<b><u>49.1</u></b>	1016	49.2
473.astar	8	1089	51.6	1085	51.8	<b><u>1085</u></b>	<b><u>51.7</u></b>	8	1020	55.1	<b><u>1013</u></b>	<b><u>55.4</u></b>	1009	55.7
483.xalancbmk	8	678	81.5	<b><u>678</u></b>	<b><u>81.4</u></b>	679	81.4	8	678	81.5	<b><u>678</u></b>	<b><u>81.4</u></b>	679	81.4

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

## General Notes

### BIOS Settings

Hardware Prefetcher set to OFF

Adjacent Cache Line Prefetch set to OFF

All results but peak 462.libquantum used taskset to bind processes to cores.

"ulimit -s unlimited" was set for stacksize unlimited

OMP\_NUM\_THREADS set to number of 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 -inline-alloc -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.hmmer: /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.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 -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.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-ic10.1-INT-ia32-linux-flags.20090713.00.html>



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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-INT-ia32-linux-flags.20090713.00.xml>

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

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