



# SPEC<sup>®</sup> CINT2006 Result

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## Acer Incorporated

## SPECint<sup>®</sup>\_rate2006 = 41.5

## Acer Altos G540 (Intel Xeon 5110)

## SPECint\_rate\_base2006 = 36.2

CPU2006 license: 97

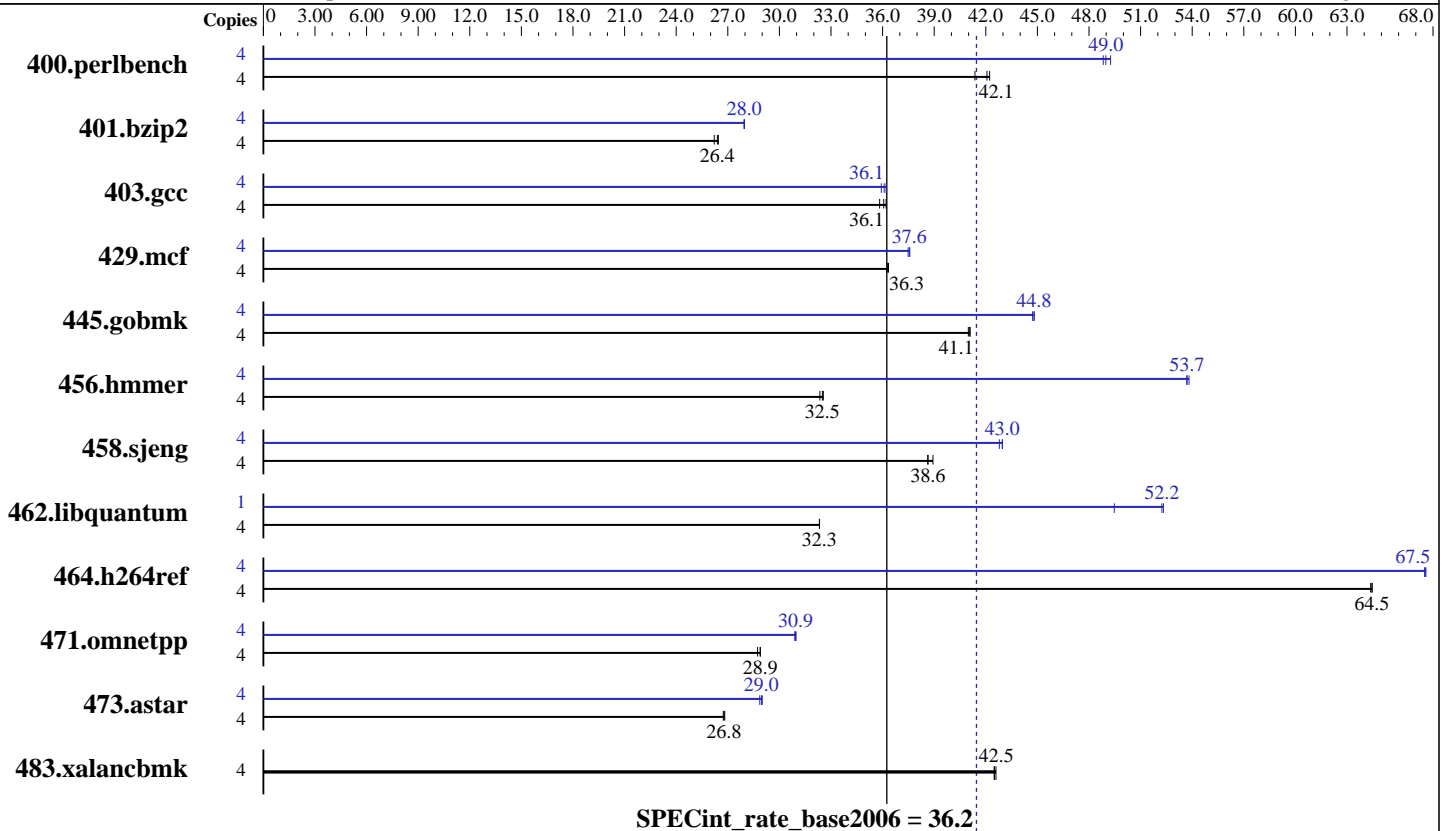
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Sep-2007

Hardware Availability: Nov-2006

Software Availability: Aug-2007



### Hardware

CPU Name: Intel Xeon 5110  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 1600  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 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 73 GB 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 10.1 Build 20070725  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Multi-user, run 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  | 4      | <b>929</b>  | <b>42.1</b> | 945         | 41.4        | 926         | 42.2        | 4      | <b>798</b> | <b>49.0</b> | 793        | 49.3        | 800         | 48.8        |
| 401.bzip2      | 4      | 1459        | 26.5        | 1473        | 26.2        | <b>1462</b> | <b>26.4</b> | 4      | 1381       | 28.0        | 1381       | 28.0        | <b>1381</b> | <b>28.0</b> |
| 403.gcc        | 4      | 889         | 36.2        | <b>893</b>  | <b>36.1</b> | 899         | 35.8        | 4      | 889        | 36.2        | 896        | 35.9        | <b>892</b>  | <b>36.1</b> |
| 429.mcf        | 4      | 1004        | 36.3        | 1006        | 36.3        | <b>1004</b> | <b>36.3</b> | 4      | <b>971</b> | <b>37.6</b> | 973        | 37.5        | 971         | 37.6        |
| 445.gobmk      | 4      | 1024        | 41.0        | <b>1022</b> | <b>41.1</b> | 1021        | 41.1        | 4      | <b>936</b> | <b>44.8</b> | 936        | 44.8        | 938         | 44.7        |
| 456.hammer     | 4      | 1146        | 32.6        | <b>1148</b> | <b>32.5</b> | 1153        | 32.4        | 4      | <b>695</b> | <b>53.7</b> | 693        | 53.8        | 695         | 53.7        |
| 458.sjeng      | 4      | <b>1252</b> | <b>38.6</b> | 1253        | 38.6        | 1243        | 38.9        | 4      | 1131       | 42.8        | 1127       | 43.0        | <b>1127</b> | <b>43.0</b> |
| 462.libquantum | 4      | <b>2563</b> | <b>32.3</b> | 2564        | 32.3        | 2563        | 32.3        | 1      | 419        | 49.5        | 396        | 52.3        | <b>397</b>  | <b>52.2</b> |
| 464.h264ref    | 4      | 1375        | 64.4        | 1373        | 64.5        | <b>1373</b> | <b>64.5</b> | 4      | 1311       | 67.5        | 1310       | 67.6        | <b>1311</b> | <b>67.5</b> |
| 471.omnetpp    | 4      | 865         | 28.9        | <b>865</b>  | <b>28.9</b> | 870         | 28.7        | 4      | 807        | 31.0        | <b>808</b> | <b>30.9</b> | 809         | 30.9        |
| 473.astar      | 4      | <b>1049</b> | <b>26.8</b> | 1047        | 26.8        | 1050        | 26.7        | 4      | <b>970</b> | <b>29.0</b> | 968        | 29.0        | 973         | 28.9        |
| 483.xalancbmk  | 4      | 648         | 42.6        | 650         | 42.5        | <b>649</b>  | <b>42.5</b> | 4      | 648        | 42.6        | 650        | 42.5        | <b>649</b>  | <b>42.5</b> |

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

## General Notes

All results used taskset to bind processes 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

## Base Optimization Flags

C benchmarks:  
-fast -inline-calloc -opt-malloc-options=3

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## Base Optimization Flags (Continued)

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:

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

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## Peak Optimization Flags (Continued)

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.hmmr: -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-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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