



# SPEC® CINT2006 Result

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## Acer Incorporated

## SPECint®\_rate2006 = 26.8

## Acer Altos R520 (Intel Xeon E5205)

## SPECint\_rate\_base2006 = 23.4

CPU2006 license: 97

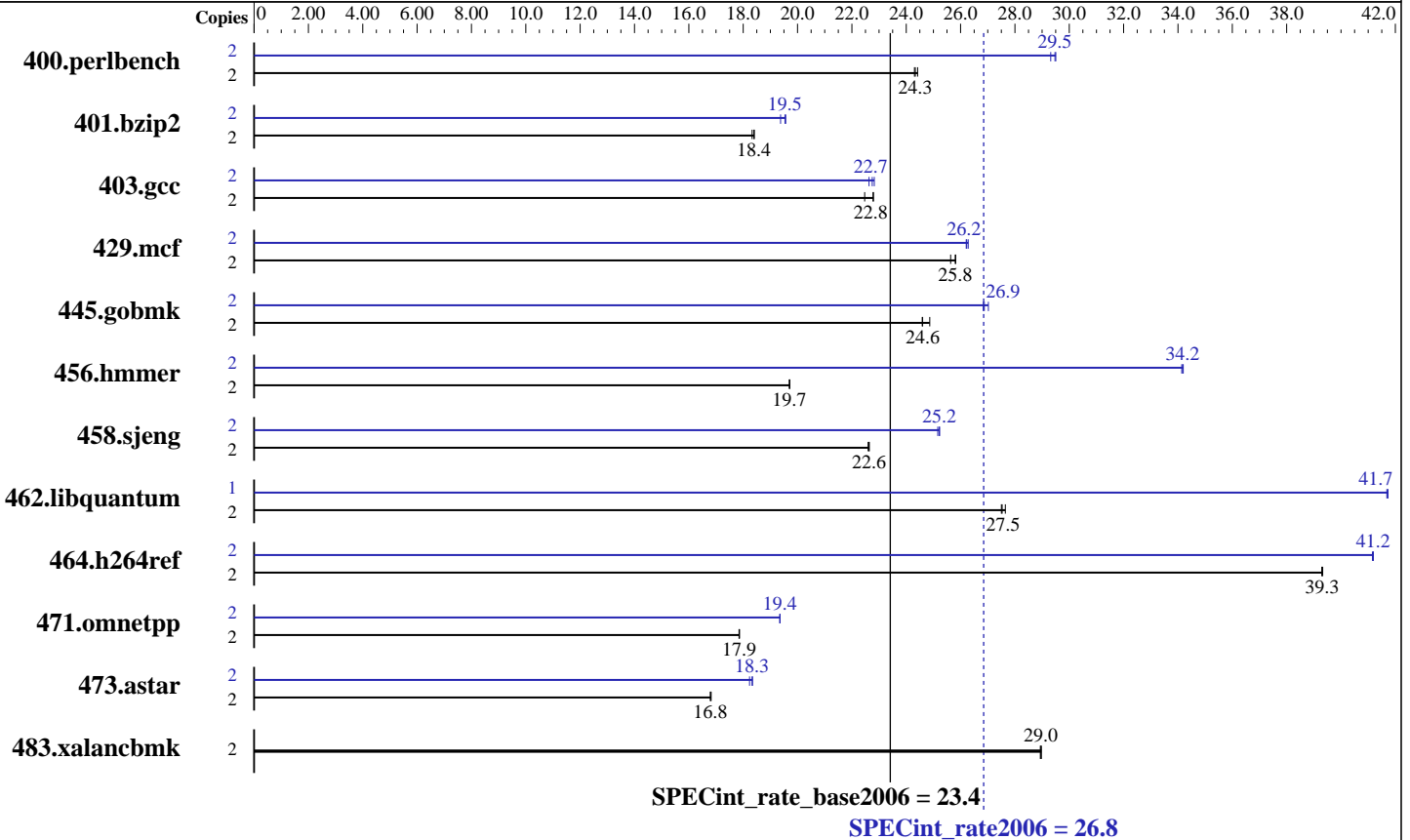
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Mar-2008

Hardware Availability: Nov-2007

Software Availability: Nov-2007



**Hardware**

CPU Name: Intel Xeon E5205  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 1860  
 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: 6 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 (x86\_64)  
 Kernel 2.6.16.46-0.12-smp  
 Compiler: Intel C++ Compiler 10.1 for Linux  
 Build 20070913 Package ID: l\_cc\_p\_10.1.008  
 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 V8.1  
 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  | 2      | 804         | 24.3        | <b>803</b>  | <b>24.3</b> | 800         | 24.4        | 2      | 662         | 29.5        | <b>663</b> | <b>29.5</b> | 666        | 29.3        |
| 401.bzip2      | 2      | 1048        | 18.4        | 1053        | 18.3        | <b>1049</b> | <b>18.4</b> | 2      | 986         | 19.6        | <b>988</b> | <b>19.5</b> | 996        | 19.4        |
| 403.gcc        | 2      | <b>707</b>  | <b>22.8</b> | 706         | 22.8        | 717         | 22.5        | 2      | 711         | 22.6        | <b>708</b> | <b>22.7</b> | 705        | 22.8        |
| 429.mcf        | 2      | <b>707</b>  | <b>25.8</b> | 706         | 25.8        | 712         | 25.6        | 2      | 696         | 26.2        | 694        | 26.3        | <b>695</b> | <b>26.2</b> |
| 445.gobmk      | 2      | <b>853</b>  | <b>24.6</b> | 844         | 24.9        | 853         | 24.6        | 2      | 776         | 27.0        | 782        | 26.8        | <b>781</b> | <b>26.9</b> |
| 456.hmmer      | 2      | 946         | 19.7        | <b>947</b>  | <b>19.7</b> | 947         | 19.7        | 2      | 546         | 34.2        | 547        | 34.1        | <b>546</b> | <b>34.2</b> |
| 458.sjeng      | 2      | <b>1069</b> | <b>22.6</b> | 1069        | 22.6        | 1071        | 22.6        | 2      | 962         | 25.2        | 959        | 25.2        | <b>960</b> | <b>25.2</b> |
| 462.libquantum | 2      | 1499        | 27.6        | <b>1505</b> | <b>27.5</b> | 1507        | 27.5        | 1      | <b>497</b>  | <b>41.7</b> | 497        | 41.7        | 497        | 41.7        |
| 464.h264ref    | 2      | 1125        | 39.3        | 1126        | 39.3        | <b>1126</b> | <b>39.3</b> | 2      | <b>1075</b> | <b>41.2</b> | 1075       | 41.2        | 1075       | 41.2        |
| 471.omnetpp    | 2      | <b>700</b>  | <b>17.9</b> | 700         | 17.8        | 700         | 17.9        | 2      | 646         | 19.3        | <b>646</b> | <b>19.4</b> | 646        | 19.4        |
| 473.astar      | 2      | 836         | 16.8        | <b>836</b>  | <b>16.8</b> | 835         | 16.8        | 2      | 765         | 18.3        | 770        | 18.2        | <b>766</b> | <b>18.3</b> |
| 483.xalancbmk  | 2      | 476         | 29.0        | <b>477</b>  | <b>29.0</b> | 477         | 28.9        | 2      | 476         | 29.0        | <b>477</b> | <b>29.0</b> | 477        | 28.9        |

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.

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer, for peak, are compiled in 64-bit mode

BIOS Settings

Hardware Prefetcher set to ON

Adjacent Cache Line Prefetch set to ON

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



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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/spec/users/rahul/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/10.1.008/bin/icc  
-L/opt/intel/cce/10.1.008/lib  
-I/opt/intel/cce/10.1.008/include

456.hmmer: /opt/intel/cce/10.1.008/bin/icc  
-L/opt/intel/cce/10.1.008/lib  
-I/opt/intel/cce/10.1.008/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

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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/spec/users/rahul/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/spec/users/rahul/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-ic10.1-int-linux64-revC.20090713.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-int-linux64-revC.20090713.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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