# SPEC® CINT2006 Result

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## Acer Incorporated

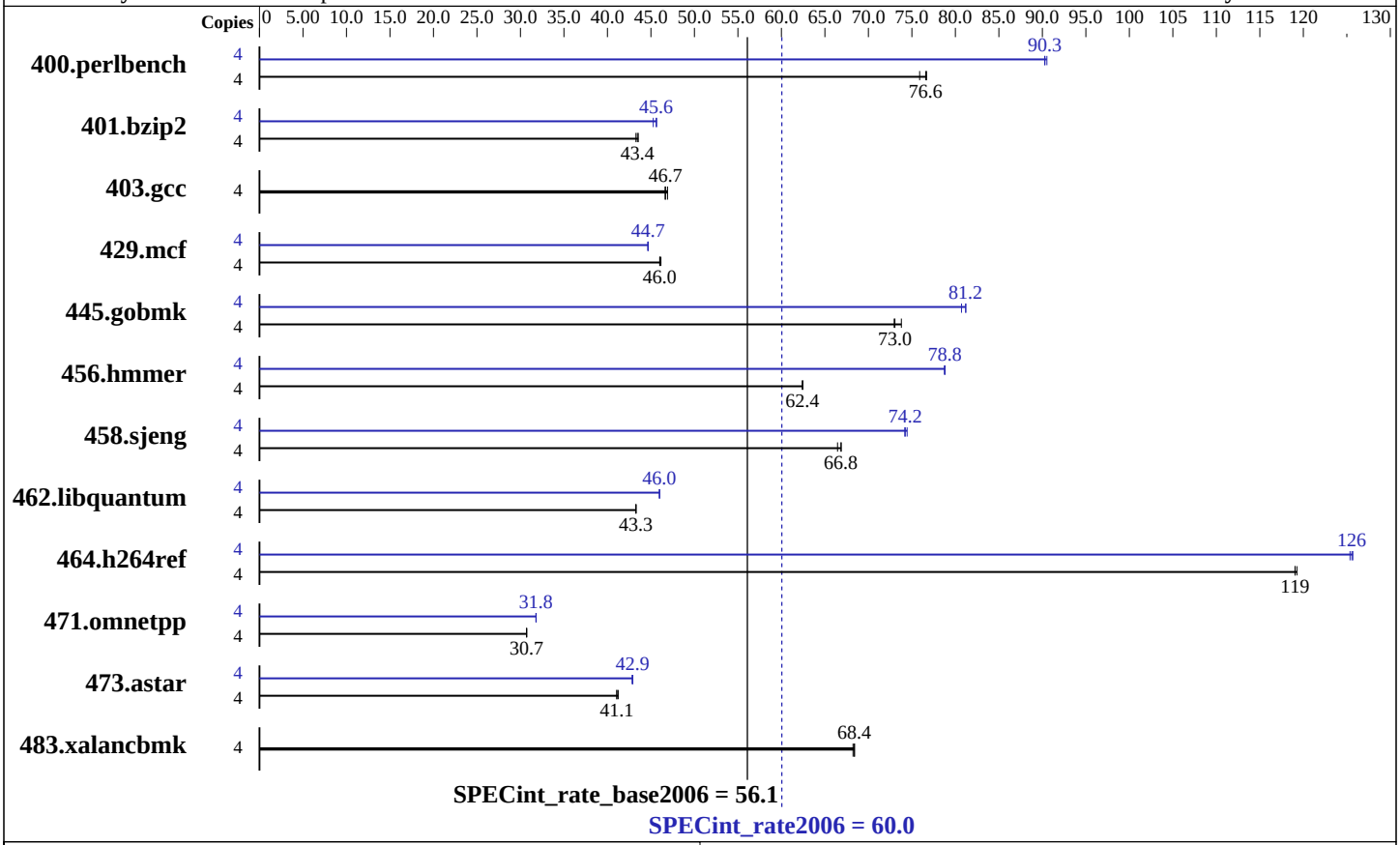
## Acer Altos R520 (Intel Xeon 5160)

SPECint®_rate2006 = 60.0

SPECint_rate_base2006 = 56.1

**CPU2006 license:** 97
**Test sponsor:** Acer Incorporated
**Tested by:** Acer Incorporated

**Test date:** Aug-2007
**Hardware Availability:** Nov-2006
**Software Availability:** Jun-2007




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon 5160 |
| CPU Characteristics: | 1333MHz system bus |
| CPU MHz: | 3000 |
| 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 73GB 10000RPM SAS HDD |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | SuSE Linux Enterprise Server 10 EM64T kernel |
| Compiler: | Intel C++ Compiler for Linux32 and Linux64 version 10.0<br>Build 20070426 Package ID: l_cc_p_10.0.023 |
| Auto Parallel: | No |
| 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 | 4 | 510 | 76.7 | **510** | **76.6** | 515 | 75.9 | 4 | 433 | 90.3 | **433** | **90.3** | 432 | 90.5 |
| 401.bzip2 | 4 | 886 | 43.5 | 892 | 43.3 | **889** | **43.4** | 4 | 853 | 45.3 | **847** | **45.6** | 845 | 45.7 |
| 403.gcc | 4 | 691 | 46.6 | 686 | 46.9 | **690** | **46.7** | 4 | 691 | 46.6 | 686 | 46.9 | **690** | **46.7** |
| 429.mcf | 4 | **793** | **46.0** | 790 | 46.2 | 793 | 46.0 | 4 | 817 | 44.6 | **816** | **44.7** | 816 | 44.7 |
| 445.gobmk | 4 | 575 | 73.0 | 569 | 73.8 | **574** | **73.0** | 4 | 520 | 80.7 | **517** | **81.2** | 517 | 81.2 |
| 456.hmmer | 4 | 598 | 62.4 | **598** | **62.4** | 598 | 62.4 | 4 | **474** | **78.8** | 474 | 78.7 | 473 | 78.8 |
| 458.sjeng | 4 | 728 | 66.5 | **724** | **66.8** | 724 | 66.9 | 4 | 650 | 74.5 | 652 | 74.2 | **652** | **74.2** |
| 462.libquantum | 4 | 1915 | 43.3 | **1915** | **43.3** | 1916 | 43.3 | 4 | 1803 | 46.0 | **1802** | **46.0** | 1802 | 46.0 |
| 464.h264ref | 4 | **744** | **119** | 744 | 119 | 742 | 119 | 4 | 704 | 126 | **705** | **126** | 706 | 125 |
| 471.omnetpp | 4 | **814** | **30.7** | 814 | 30.7 | 814 | 30.7 | 4 | **786** | **31.8** | 786 | 31.8 | 787 | 31.8 |
| 473.astar | 4 | 684 | 41.1 | **683** | **41.1** | 681 | 41.2 | 4 | 654 | 42.9 | **655** | **42.9** | 656 | 42.8 |
| 483.xalancbmk | 4 | 404 | 68.2 | 403 | 68.4 | **404** | **68.4** | 4 | 404 | 68.2 | 403 | 68.4 | **404** | **68.4** |

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
  Snoop Filter set to OFF
   Snoop Filter preserves cache coherency while
   minimizing snoops to remote nodes.

  Adjacent Cache Line Prefetch set to OFF
   Prefetch data in order to shorten execution cycles
   and maximize data processing efficiency.

  Optimization for high-frequency FSB applications set to ON

taskset was used to bind copies 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

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/spec/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/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include

456.hmmer: /opt/intel/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/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

Continued on next page

## Peak Portability Flags (Continued)

483.xalancbmk: -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

403.gcc: basepeak = yes

429.mcf: -fast -prefetch

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

456.hmmer: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -ansi-alias

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

462.libquantum: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -Ob0 -prefetch -opt-streaming-stores always

464.h264ref: Same as 456.hmmer

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo -no-prec_div -ansi-alias -Wl,-z,muldefs -L/spec/cpu2006.1.0/lib -lsmartheap

473.astar: Same as 471.omnetpp

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.20090714.16.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.20090714.16.xml


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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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