# SPEC® CINT2006 Result

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## Acer Incorporated

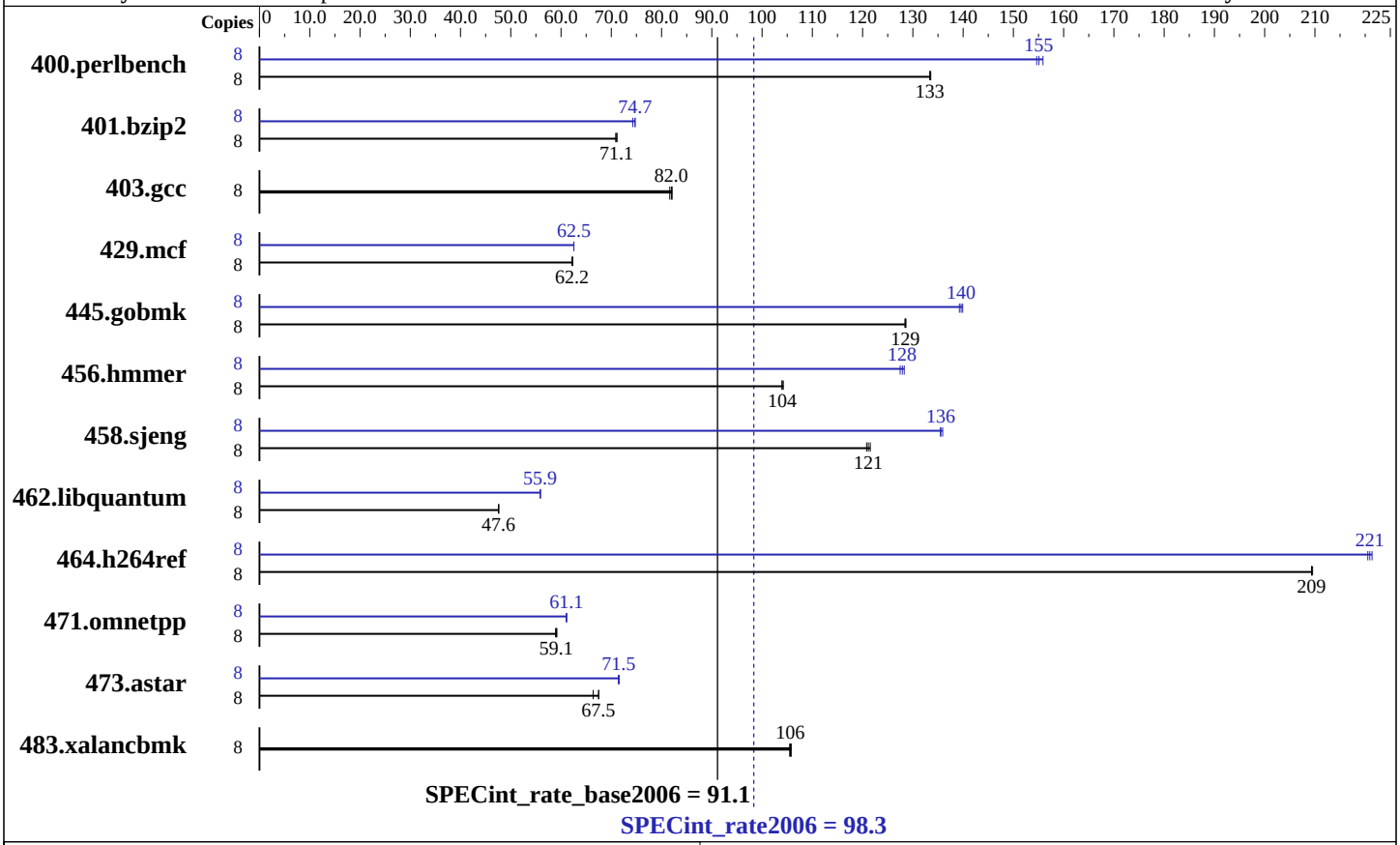
## Acer Altos R720 (Intel Xeon X5355)

SPECint®_rate2006 = 98.3

SPECint_rate_base2006 = 91.1

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

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




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon X5355 |
| CPU Characteristics: | 1333MHz system bus |
| CPU MHz: | 2660 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 2 chips, 4 cores/chip |
| CPU(s) orderable: | 1, 2 chips |
| Primary Cache: | 32 KB I + 32 KB D on chip per core |
| Secondary Cache: | 8 MB I+D on chip per chip, 4 MB shared / 2 cores |
| 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 2.6.16.21-0.8-smp) |
| 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: | Default |
| 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 | 8 | 585 | 134 | **586** | **133** | 586 | 133 | 8 | 501 | 156 | 505 | 155 | **504** | **155** |
| 401.bzip2 | 8 | **1086** | **71.1** | 1085 | 71.1 | 1089 | 70.9 | 8 | 1033 | 74.7 | 1039 | 74.3 | **1033** | **74.7** |
| 403.gcc | 8 | 789 | 81.6 | 784 | 82.1 | **786** | **82.0** | 8 | 789 | 81.6 | 784 | 82.1 | **786** | **82.0** |
| 429.mcf | 8 | **1173** | **62.2** | 1173 | 62.2 | 1171 | 62.3 | 8 | 1167 | 62.5 | 1166 | 62.6 | **1166** | **62.5** |
| 445.gobmk | 8 | 652 | 129 | 653 | 128 | **653** | **129** | 8 | **601** | **140** | 600 | 140 | 603 | 139 |
| 456.hmmer | 8 | **718** | **104** | 716 | 104 | 718 | 104 | 8 | 582 | 128 | **584** | **128** | 586 | 127 |
| 458.sjeng | 8 | 801 | 121 | **799** | **121** | 797 | 122 | 8 | 712 | 136 | 715 | 135 | **714** | **136** |
| 462.libquantum | 8 | 3484 | 47.6 | **3483** | **47.6** | 3483 | 47.6 | 8 | 2968 | 55.9 | **2968** | **55.9** | 2965 | 55.9 |
| 464.h264ref | 8 | **846** | **209** | 845 | 210 | 846 | 209 | 8 | 800 | 221 | 803 | 221 | **801** | **221** |
| 471.omnetpp | 8 | 849 | 58.9 | 845 | 59.2 | **847** | **59.1** | 8 | 818 | 61.1 | 819 | 61.0 | **818** | **61.1** |
| 473.astar | 8 | 846 | 66.4 | **832** | **67.5** | 832 | 67.5 | 8 | 785 | 71.6 | **786** | **71.5** | 787 | 71.4 |
| 483.xalancbmk | 8 | 523 | 105 | **523** | **106** | 522 | 106 | 8 | 523 | 105 | **523** | **106** | 522 | 106 |

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 Prefetch is set to disabled
Adjacent Cache Line Prefetch is set to disabled

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`
483.xalancbmk: `-DSPEC_CPU_LINUX`

## Peak Optimization Flags

C benchmarks:

Continued on next page

# 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`

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.20090714.41.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.20090714.41.xml`

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