# SPEC® CINT2006 Result

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## Acer Incorporated

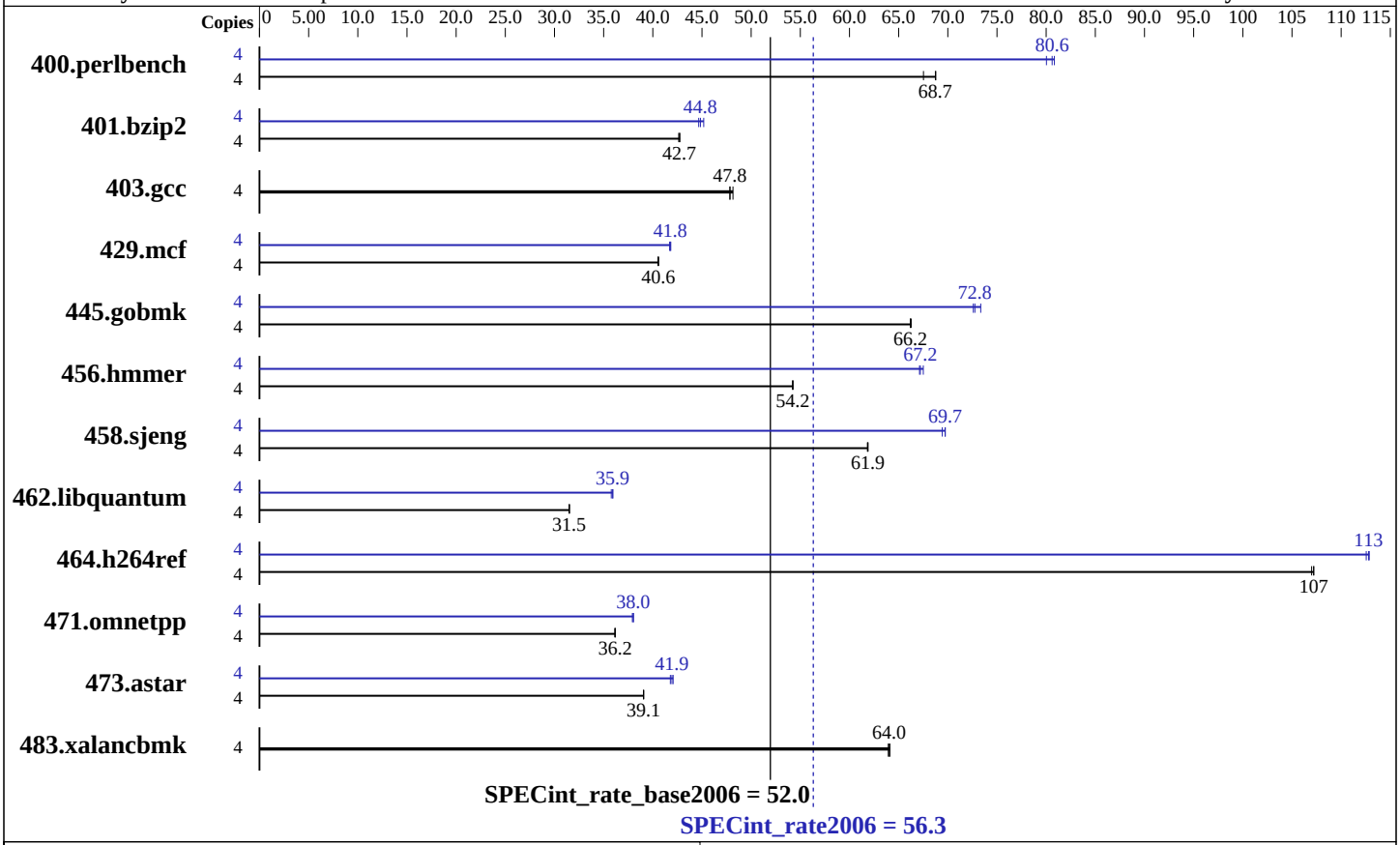
## Acer Altos G540 (Intel Xeon X5355)

SPECint®_rate2006 = 56.3

SPECint_rate_base2006 = 52.0

**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: | 2666 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 1 chip, 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 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 version 10.0 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-bit |
| Other Software: | None |

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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 | **569** | **68.7** | 579 | 67.5 | 568 | 68.8 | 4 | **485** | **80.6** | 488 | 80.0 | 483 | 80.8 |
| 401.bzip2 | 4 | 903 | 42.7 | 905 | 42.6 | **904** | **42.7** | 4 | 864 | 44.7 | **861** | **44.8** | 854 | 45.2 |
| 403.gcc | 4 | 673 | 47.8 | **673** | **47.8** | 669 | 48.2 | 4 | 673 | 47.8 | **673** | **47.8** | 669 | 48.2 |
| 429.mcf | 4 | **899** | **40.6** | 900 | 40.5 | 899 | 40.6 | 4 | **873** | **41.8** | 875 | 41.7 | 872 | 41.8 |
| 445.gobmk | 4 | 633 | 66.3 | **634** | **66.2** | 634 | 66.2 | 4 | 572 | 73.3 | 578 | 72.6 | **577** | **72.8** |
| 456.hmmer | 4 | 688 | 54.3 | **688** | **54.2** | 688 | 54.2 | 4 | 553 | 67.5 | 556 | 67.1 | **555** | **67.2** |
| 458.sjeng | 4 | 783 | 61.8 | **782** | **61.9** | 782 | 61.9 | 4 | 697 | 69.4 | 694 | 69.7 | **694** | **69.7** |
| 462.libquantum | 4 | 2631 | 31.5 | **2631** | **31.5** | 2630 | 31.5 | 4 | 2306 | 35.9 | **2308** | **35.9** | 2317 | 35.8 |
| 464.h264ref | 4 | 827 | 107 | 826 | 107 | **826** | **107** | 4 | **785** | **113** | 784 | 113 | 786 | 113 |
| 471.omnetpp | 4 | 692 | 36.1 | **691** | **36.2** | 691 | 36.2 | 4 | 659 | 37.9 | 657 | 38.0 | **658** | **38.0** |
| 473.astar | 4 | 719 | 39.1 | **719** | **39.1** | 719 | 39.0 | 4 | 668 | 42.1 | **669** | **41.9** | 672 | 41.8 |
| 483.xalancbmk | 4 | 431 | 64.1 | **431** | **64.0** | 432 | 63.9 | 4 | 431 | 64.1 | **431** | **64.0** | 432 | 63.9 |

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

## General Notes

```
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
```

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## Base Optimization Flags (Continued)

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:

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

Continued on next page

## Peak Optimization Flags (Continued)

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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