# SPEC® CFP2006 Result



## Acer Incorporated

Acer Altos R520 (Intel Xeon X5355, 2.66GHz)

SPECfp®_rate2006 = 57.2

SPECfp_rate_base2006 = 56.3

**CPU2006 license:** 97

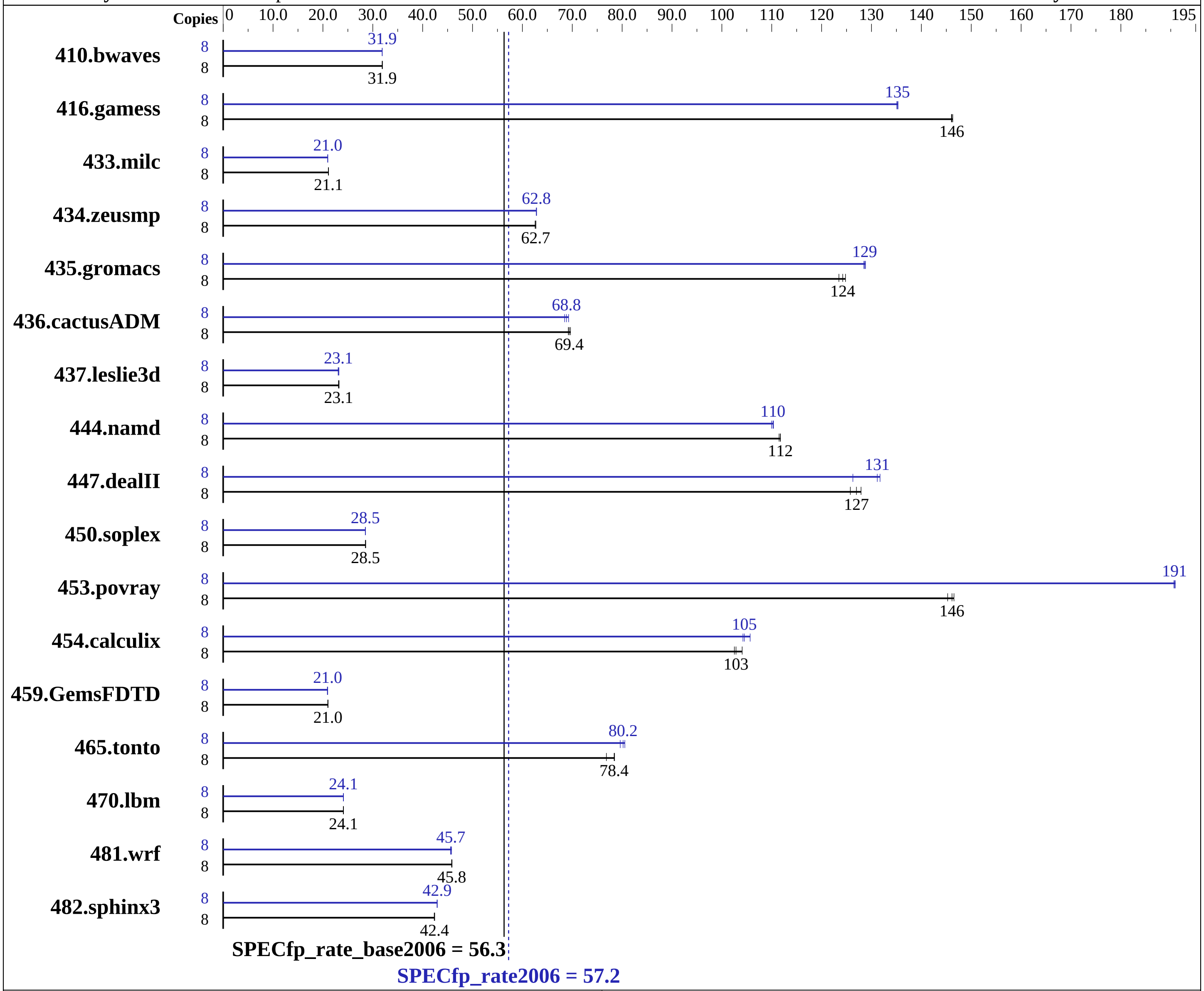
**Test sponsor:** Acer Incorporated

**Tested by:** Acer Incorporated

**Test date:** Feb-2007

**Hardware Availability:** Nov-2006

**Software Availability:** Nov-2006




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon X5355 |
| CPU Characteristics: | 1333MHz system bus |
| CPU MHz: | 2666 |
| 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 |

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### Software

| | |
|---|---|
| Operating System: | SUSE Linux Enterprise Server 10 EM64T (Kernel 2.6.16.21-0.8-smp) |
| Compiler: | Intel C++ Compiler 9.1 for Intel EM64T-based Package ID l_cc_c_9.1.042 Build no 20060707 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_fc_c_9.1.040 Build no 20061101 |
| Auto Parallel: | No |
| File System: | ext2 |

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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

System State: Default
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: --

## Results Table

| | Base | | | | | | | Peak | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Benchmark** | **Copies** | **Seconds** | **Ratio** | **Seconds** | **Ratio** | **Seconds** | **Ratio** | **Copies** | **Seconds** | **Ratio** | **Seconds** | **Ratio** | **Seconds** | **Ratio** |
| 410.bwaves | 8 | 3411 | 31.9 | **3407** | **31.9** | 3403 | 31.9 | 8 | 3408 | 31.9 | **3408** | **31.9** | 3408 | 31.9 |
| 416.gamess | 8 | 1071 | 146 | **1072** | **146** | 1073 | 146 | 8 | **1158** | **135** | 1158 | 135 | 1160 | 135 |
| 433.milc | 8 | 3482 | 21.1 | 3477 | 21.1 | **3478** | **21.1** | 8 | 3505 | 21.0 | **3500** | **21.0** | 3499 | 21.0 |
| 434.zeusmp | 8 | 1164 | 62.5 | **1161** | **62.7** | 1161 | 62.7 | 8 | 1158 | 62.9 | **1159** | **62.8** | 1160 | 62.8 |
| 435.gromacs | 8 | **460** | **124** | 458 | 125 | 463 | 123 | 8 | 444 | 129 | 445 | 128 | **444** | **129** |
| 436.cactusADM | 8 | **1378** | **69.4** | 1381 | 69.2 | 1373 | 69.6 | 8 | 1380 | 69.3 | **1389** | **68.8** | 1396 | 68.5 |
| 437.leslie3d | 8 | 3235 | 23.2 | 3251 | 23.1 | **3249** | **23.1** | 8 | 3261 | 23.1 | **3254** | **23.1** | 3240 | 23.2 |
| 444.namd | 8 | 576 | 111 | **574** | **112** | 574 | 112 | 8 | 581 | 110 | 584 | 110 | **582** | **110** |
| 447.dealII | 8 | 728 | 126 | **721** | **127** | 716 | 128 | 8 | 725 | 126 | **698** | **131** | 695 | 132 |
| 450.soplex | 8 | **2338** | **28.5** | 2334 | 28.6 | 2340 | 28.5 | 8 | 2339 | 28.5 | 2341 | 28.5 | **2340** | **28.5** |
| 453.povray | 8 | 290 | 147 | **291** | **146** | 293 | 145 | 8 | **223** | **191** | 223 | 191 | 223 | 191 |
| 454.calculix | 8 | **642** | **103** | 644 | 103 | 634 | 104 | 8 | 625 | 106 | **632** | **105** | 633 | 104 |
| 459.GemsFDTD | 8 | 4048 | 21.0 | 4037 | 21.0 | **4038** | **21.0** | 8 | 4064 | 20.9 | 4049 | 21.0 | **4050** | **21.0** |
| 465.tonto | 8 | 1003 | 78.5 | 1024 | 76.8 | **1004** | **78.4** | 8 | 989 | 79.6 | 977 | 80.5 | **982** | **80.2** |
| 470.lbm | 8 | **4559** | **24.1** | 4562 | 24.1 | 4558 | 24.1 | 8 | **4558** | **24.1** | 4558 | 24.1 | 4559 | 24.1 |
| 481.wrf | 8 | 1950 | 45.8 | 1947 | 45.9 | **1950** | **45.8** | 8 | **1957** | **45.7** | 1960 | 45.6 | 1951 | 45.8 |
| 482.sphinx3 | 8 | 3684 | 42.3 | **3678** | **42.4** | 3676 | 42.4 | 8 | 3631 | 42.9 | **3635** | **42.9** | 3635 | 42.9 |

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

## Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

## General Notes

This result was measured on the Acer Altos R520.
The Altos R720 and Altos R520 are electronically equivalent.

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## Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

Fortran benchmarks:
`ifort`

Benchmarks using both Fortran and C:
`icc ifort`

## Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

## Base Optimization Flags

C benchmarks:
`-fast`

C++ benchmarks:
`-fast`

Fortran benchmarks:
`-fast`

Benchmarks using both Fortran and C:
`-fast`

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# Peak Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

Fortran benchmarks:
`ifort`

Benchmarks using both Fortran and C:
`icc ifort`

# Peak Portability Flags

Same as Base Portability Flags

# Peak Optimization Flags

C benchmarks:
`-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast` `-auto_ilp32`

C++ benchmarks:
`-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast` `-auto_ilp32`

Fortran benchmarks:
`-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast` `-auto_ilp32`

Benchmarks using both Fortran and C:
`-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast` `-auto_ilp32`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Acer-CPU2006-ic91-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Acer-CPU2006-ic91-flags.xml

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

Tested with SPEC CPU2006 v1.0.
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