Acer Incorporated
Acer Altos R520 (Intel Xeon E5405)

**SPECfp®_rate2006 = 64.0**

**SPECfp_rate_base2006 = 57.6**

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<td>12 MB I+D on chip per chip, 6 MB shared / 2 cores</td>
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**CPU2006 license:** 97  
**Test sponsor:** Acer Incorporated  
**Tested by:** Acer Incorporated  
**Test date:** Jan-2008  
**Hardware Availability:** Nov-2007  
**Software Availability:** Nov-2007

### SPECfp® CFP2006 Result

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**Continued on next page**
Acer Incorporated
Acer Altos R520 (Intel Xeon E5405)

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

**Results Table**

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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 64-bit mode except 437.leslie3d, 450.soplex
470.lbm and 482.sphinx3, at peak, are compiled in 32-bit mode

**BIOS Settings**

Hardware Prefetcher set to OFF

Adjacent Cache Line Prefetch set to OFF

All results used taskset to bind processes to cores.
"ulimit -s unlimited" was set for stacksize unlimited
**SPEC CFP2006 Result**

**Acer Incorporated**

Acer Altos R520 (Intel Xeon E5405)

| SPECfp_rate2006 | 64.0 |
| SPECfp_rate_base2006 | 57.6 |

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

**Test date:** Jan-2008
**Hardware Availability:** Nov-2007
**Software Availability:** Nov-2007

---

### 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 -DSPEC_CPU_CASE_FLAG
- 454.calculix: -DSPEC_CPU_LP64
- 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*
Acer Incorporated

Acer Altos R520 (Intel Xeon E5405)

SPECfp_rate2006 = 64.0
SPECfp_rate_base2006 = 57.6

CPU2006 license: 97
Test date: Jan-2008
Test sponsor: Acer Incorporated
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Peak Compiler Invocation

C benchmarks (except as noted below):
/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include

433.milc: icc

C++ benchmarks (except as noted below):
icpc

450.soplex: /opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include

Fortran benchmarks (except as noted below):
ifort

437.leslie3d: /opt/intel/fc/10.1.008/bin/ifort -L/opt/intel/fc/10.1.008/lib
-I/opt/intel/fc/10.1.008/include

Benchmarks using both Fortran and C:
icc ifort

Peak 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
444.namd: -DSPEC_CPU_LP64
447.dealII: -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
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-scalar-rep -prefetch -opt-malloc-options=3

Continued on next page
Acer Incorporated

Acer Altos R520 (Intel Xeon E5405) SPECfp_rate2006 = 64.0
SPECfp_rate_base2006 = 57.6

CPU2006 license: 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated
Test date: Jan-2008
Hardware Availability: Nov-2007
Software Availability: Nov-2007

Peak Optimization Flags (Continued)

482.sphinx3:  -fast -unroll2

C++ benchmarks:

444.namd:  -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
- auto-ilp32
447.dealII:  -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias -scalar-rep-
450.soplex:  -prof-gen(pass 1) -prof-use(pass 2) -fast
- opt-malloc-options=3
453.povray:  -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4
-ansi-alias

Fortran benchmarks:

410.bwaves:  -fast -prefetch
416.gamess:  -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0
-ansi-alias -scalar-rep-
434.zeusmp:  -prof-gen(pass 1) -prof-use(pass 2) -fast
437.leslie3d:  -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
- opt-malloc-options=3
459.GemsFDTD:  -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0
- prefetch
465.tonto:  -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -auto

Benchmarks using both Fortran and C:

435.gromacs:  -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
- auto-ilp32
436.cactusADM:  -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
- prefetch -parallel -auto-ilp32
454.calculix:  -fast -unroll-aggressive -auto-ilp32
481.wrf:  -fast -auto-ilp32

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.08.html
### Acer Incorporated

**Acer Altos R520 (Intel Xeon E5405)**

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

http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.08.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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