# SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Acer Incorporated

## Acer AR380 F1 (Intel Xeon E5649)

$SPECfp®\_rate2006 = 219$

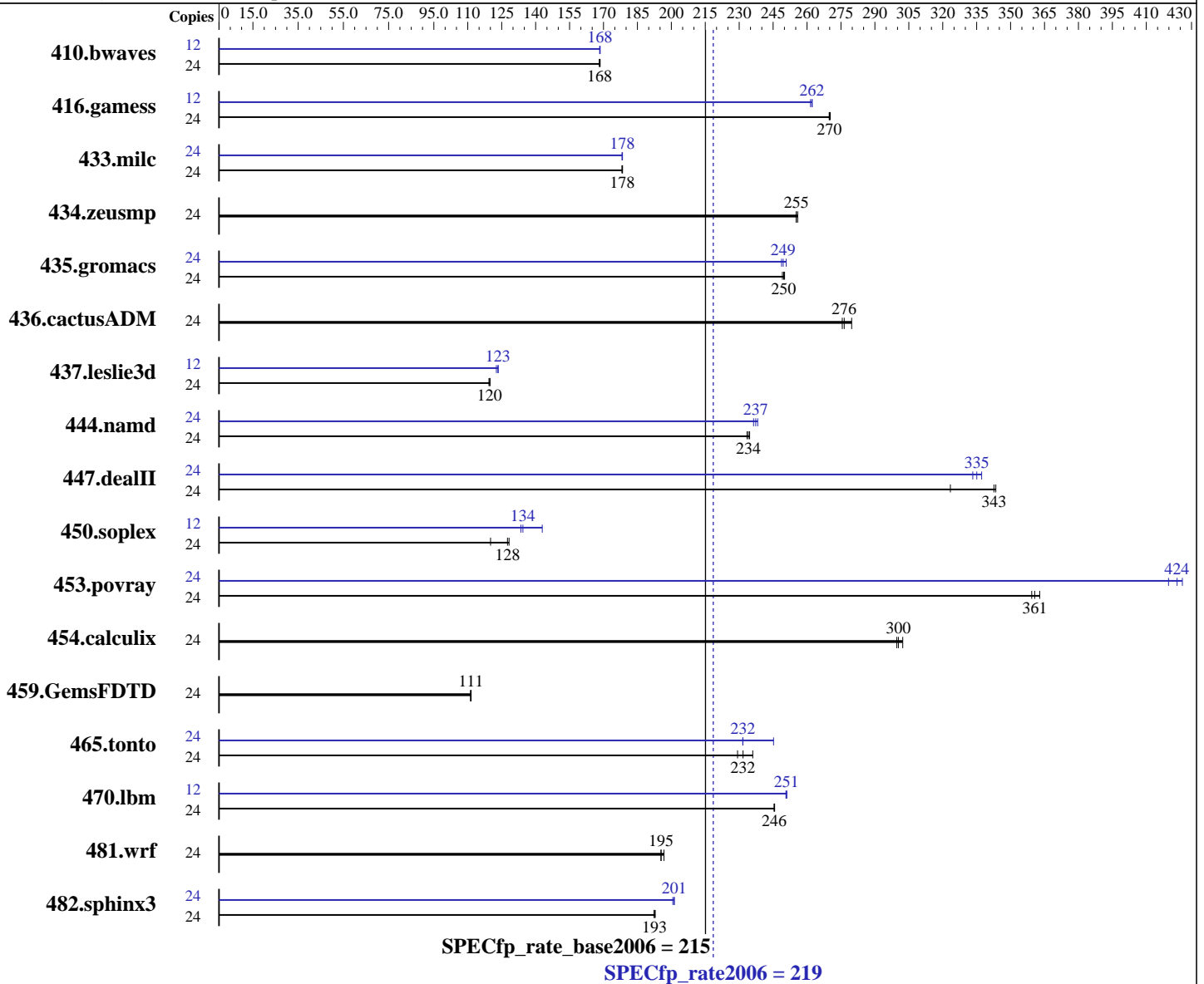$SPECfp\_rate\_base2006 = 215$

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

**Test date:** May-2011
**Hardware Availability:** Feb-2011
**Software Availability:** Jan-2011



| Copies | | |
|---|---|---|
| 410.bwaves | 12 | 168 |
| | 24 | 168 |
| 416.gamess | 12 | 262 |
| | 24 | 270 |
| 433.milc | 24 | 178 |
| | 24 | 178 |
| 434.zeusmp | 24 | 255 |
| 435.gromacs | 24 | 249 |
| | 24 | 250 |
| 436.cactusADM | 24 | 276 |
| 437.leslie3d | 12 | 123 |
| | 24 | 120 |
| 444.namd | 24 | 237 |
| | 24 | 234 |
| 447.dealII | 24 | 335 |
| | 24 | 343 |
| 450.soplex | 12 | 134 |
| | 24 | 128 |
| 453.povray | 24 | 424 |
| | 24 | 361 |
| 454.calculix | 24 | 300 |
| 459.GemsFDTD | 24 | 111 |
| 465.tonto | 24 | 232 |
| | 24 | 232 |
| 470.lbm | 12 | 251 |
| | 24 | 246 |
| 481.wrf | 24 | 195 |
| 482.sphinx3 | 24 | 201 |
| | 24 | 193 |

SPECfp_rate_base2006 = 215

SPECfp_rate2006 = 219

## Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon E5649 |
| CPU Characteristics: | Intel Turbo Boost Technology up to 2.93 GHz |
| CPU MHz: | 2533 |
| FPU: | Integrated |
| CPU(s) enabled: | 12 cores, 2 chips, 6 cores/chip, 2 threads/core |
| CPU(s) orderable: | 1,2 chips |
| Primary Cache: | 32 KB I + 32 KB D on chip per core |
| Secondary Cache: | 256 KB I+D on chip per core |

*Continued on next page*

## Software

| | |
|---|---|
| Operating System: | SUSE Linux Enterprise server 11 (x86_64) SP1, Kernel 2.6.32.12-0.7-default |
| Compiler: | Intel C++ and Fortran Intel 64 Compiler XE for applications running on Intel 64 Version 12.0.1.116 Build 20101116 |
| Auto Parallel: | No |
| File System: | ext3 |
| System State: | Run level 3 (multi-user) |
| Base Pointers: | 64-bit |

*Continued on next page*

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| | | | |
|---|---|---|---|
| L3 Cache: | 12 MB I+D on chip per chip | Peak Pointers: | 32/64-bit |
| Other Cache: | None | Other Software: | None |
| Memory: | 48 GB (12 x 4 GB 2Rx8 PC3-10600R-9, ECC) | | |
| Disk Subsystem: | 1 x 300 GB SATA, 10000 RPM | | |
| Other Hardware: | None | | |

## Results Table

| Benchmark | Base | | | | | | Peak | | | | | | |
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 410.bwaves | 24 | 1940 | 168 | 1935 | 169 | **1938** | **168** | 12 | **968** | **168** | 969 | 168 | 968 | 169 |
| 416.gamess | 24 | 1742 | 270 | 1739 | 270 | **1741** | **270** | 12 | **896** | **262** | 898 | 262 | 896 | 262 |
| 433.milc | 24 | **1235** | **178** | 1237 | 178 | 1235 | 178 | 24 | 1237 | 178 | **1235** | **178** | 1235 | 178 |
| 434.zeusmp | 24 | **856** | **255** | 854 | 256 | 856 | 255 | 24 | **856** | **255** | 854 | 256 | 856 | 255 |
| 435.gromacs | 24 | 685 | 250 | **686** | **250** | 688 | 249 | 24 | 683 | 251 | **687** | **249** | 689 | 249 |
| 436.cactusADM | 24 | 1025 | 280 | 1041 | 276 | **1038** | **276** | 24 | 1025 | 280 | 1041 | 276 | **1038** | **276** |
| 437.leslie3d | 24 | 1883 | 120 | **1885** | **120** | 1890 | 119 | 12 | 920 | 123 | **915** | **123** | 914 | 123 |
| 444.namd | 24 | 820 | 235 | **822** | **234** | 824 | 233 | 24 | 808 | 238 | **811** | **237** | 814 | 236 |
| 447.dealII | 24 | 799 | 343 | 849 | 323 | **801** | **343** | 24 | **819** | **335** | 824 | 333 | 814 | 337 |
| 450.soplex | 24 | 1667 | 120 | **1569** | **128** | 1561 | 128 | 12 | 750 | 133 | **745** | **134** | 700 | 143 |
| 453.povray | 24 | **354** | **361** | 355 | 359 | 352 | 363 | 24 | 304 | 420 | 300 | 426 | **301** | **424** |
| 454.calculix | 24 | 655 | 302 | 661 | 300 | **659** | **300** | 24 | 655 | 302 | 661 | 300 | **659** | **300** |
| 459.GemsFDTD | 24 | 2290 | 111 | **2286** | **111** | 2284 | 111 | 24 | 2290 | 111 | **2286** | **111** | 2284 | 111 |
| 465.tonto | 24 | 1030 | 229 | 1001 | 236 | **1019** | **232** | 24 | 1020 | 232 | 963 | 245 | **1019** | **232** |
| 470.lbm | 24 | 1342 | 246 | 1344 | 245 | **1343** | **246** | 12 | 657 | 251 | **657** | **251** | 658 | 251 |
| 481.wrf | 24 | 1362 | 197 | **1371** | **195** | 1372 | 195 | 24 | 1362 | 197 | **1371** | **195** | 1372 | 195 |
| 482.sphinx3 | 24 | 2432 | 192 | 2425 | 193 | **2429** | **193** | 24 | 2331 | 201 | **2324** | **201** | 2324 | 201 |

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

## Submit Notes

```
   The config file option 'submit' was used.
    numactl was used to bind copies to the cores
```

## Operating System Notes

```
   'ulimit -s unlimited' was used to set environment stack size
   Large pages were disabled for this run
```

## Platform Notes

```
   BIOS Settings:
   Fan speed = full speed (Default = Balanced)
   Data Reuse = Disabled (Default = Enabled)
```

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### SPECfp_rate_base2006 = 215

**CPU2006 license:** 97
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## General Notes

```
Binaries compiled on RHEL5.5
This result was measured on the Gateway GR380 F1.
The Acer AR360 F1, AR380 F1, Gateway GR360 F1 are electronically equivalent
```

## Base Compiler Invocation

C benchmarks:
```
icc    -m64
```

C++ benchmarks:
```
icpc   -m64
```

Fortran benchmarks:
```
ifort -m64
```

Benchmarks using both Fortran and C:
```
icc    -m64 ifort -m64
```

## 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:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static -ansi-alias
```

C++ benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static -ansi-alias
```

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## Base Optimization Flags (Continued)

Fortran benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static
```

Benchmarks using both Fortran and C:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static -ansi-alias
```

## Peak Compiler Invocation

C benchmarks (except as noted below):
```
icc   -m64
```

```
482.sphinx3: icc -m32
```

C++ benchmarks (except as noted below):
```
icpc  -m64
```

```
450.soplex: icpc -m32
```

Fortran benchmarks:
```
ifort -m64
```

Benchmarks using both Fortran and C:
```
icc   -m64 ifort -m64
```

## 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
437.leslie3d: -DSPEC_CPU_LP64
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
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```

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## Peak Optimization Flags

C benchmarks:

    433.milc: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
              -no-prec-div(pass 2) -prof-use(pass 2) -static -auto-ilp32

    470.lbm: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
             -no-prec-div(pass 2) -prof-use(pass 2) -opt-malloc-options=3
             -ansi-alias -opt-prefetch -static -auto-ilp32

    482.sphinx3: -xSSE4.2 -ipo -O3 -no-prec-div -unroll2

C++ benchmarks:

    444.namd: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
              -no-prec-div(pass 2) -prof-use(pass 2) -fno-alias
              -auto-ilp32

    447.dealII: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -static -auto-ilp32

    450.soplex: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -opt-malloc-options=3
                -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

    453.povray: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -ansi-alias
                -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

Fortran benchmarks:

    410.bwaves: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -static

    416.gamess: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -unroll2
                -inline-level=0 -scalar-rep- -static

    434.zeusmp: basepeak = yes

    437.leslie3d: -xSSE4.2 -ipo -O3 -no-prec-div
                  -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

    459.GemsFDTD: basepeak = yes

    465.tonto: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
               -no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -auto
               -inline-calloc -opt-malloc-options=3
               -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

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# Peak Optimization Flags (Continued)

Benchmarks using both Fortran and C:

435.gromacs: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -opt-prefetch
-static -auto-ilp32

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Acer-Intel-Linux-Settings-flags.20110608.html
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Acer-Intel-Linux-Settings-flags.20110608.xml
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.xml

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

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