



# SPEC<sup>®</sup> CFP2006 Result

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## ACTION S.A.

### SPECfp<sup>®</sup>\_rate2006 = Not Run

### ACTINA SOLAR 200 X3 (Intel Xeon E5504)

### SPECfp\_rate\_base2006 = 111

CPU2006 license: 9008

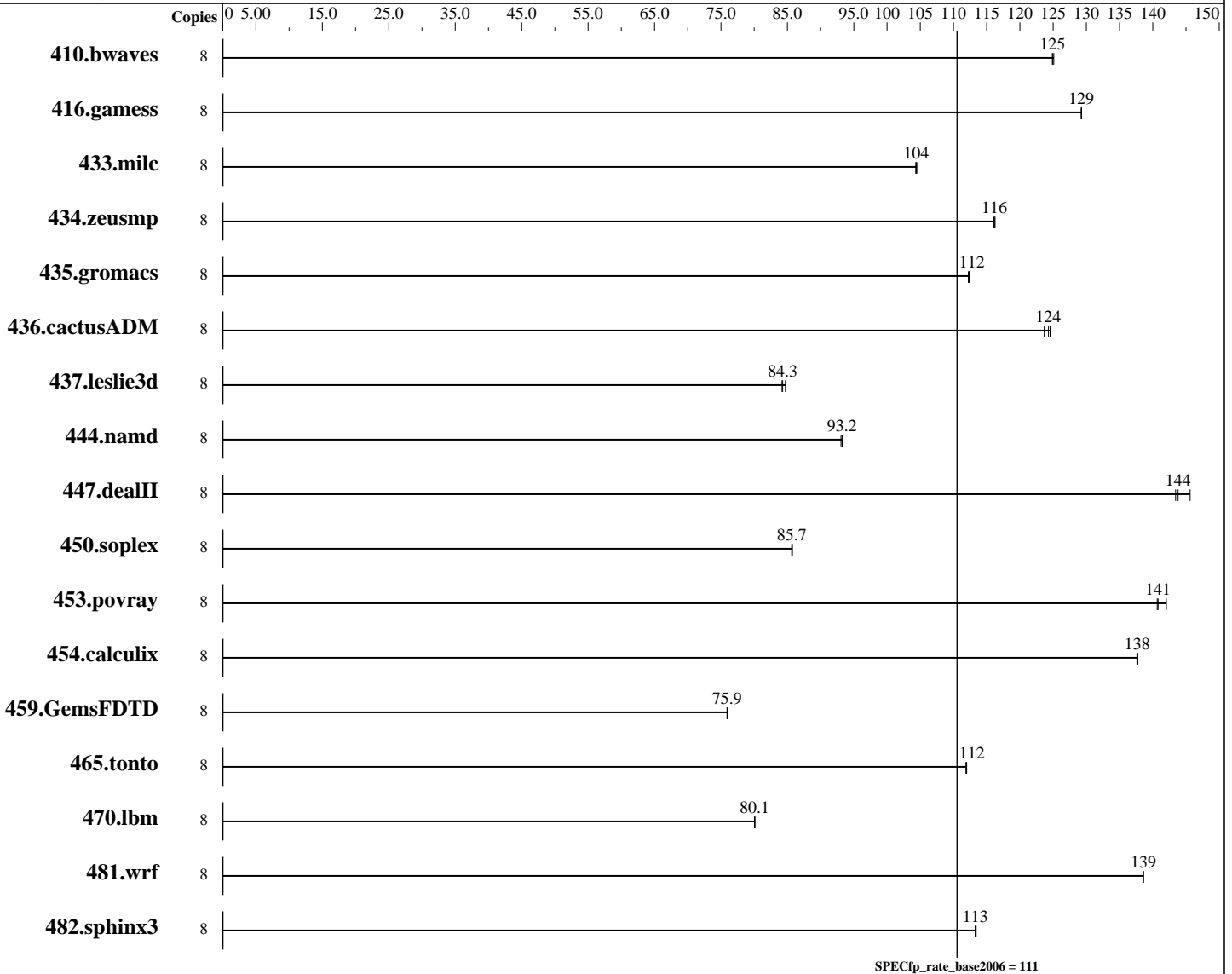
Test sponsor: ACTION S.A.

Tested by: ACTION S.A.

Test date: Jul-2009

Hardware Availability: Apr-2009

Software Availability: Feb-2009



#### Hardware

CPU Name: Intel Xeon E5504  
 CPU Characteristics:  
 CPU MHz: 2000  
 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: 256 KB I+D on chip per core

Continued on next page

#### Software

Operating System: SuSe Linux Enterprise Server 10 (x86\_64) with SP2, kernel 2.6.16.60-0.21-smp  
 Compiler: Intel C++ and Fortran Compiler 11.0 for Linux Build 20080930 Package ID: l\_cproc\_p\_11.0.066, l\_fproc\_p\_11.0.066  
 Auto Parallel: No  
 File System: ReiserFS  
 System State: Run level 3 (multi-user)  
 Base Pointers: 64-bit

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### Hardware (Continued)

### Software (Continued)

L3 Cache: 4 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 24 GB (6 x 4 GB DDR3, 1066 MHz, Reg. ECC, running at 800)  
 Disk Subsystem: 147 GB SAS, 15000 RPM  
 Other Hardware: None

Peak Pointers: 32/64-bit  
 Other Software: Binutils 2.18.50.0.7.20080502

## Results Table

| Benchmark     | Base   |             |             |             |             |             |             | Peak   |         |       |         |       |         |       |
|---------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|--------|---------|-------|---------|-------|---------|-------|
|               | Copies | Seconds     | Ratio       | Seconds     | Ratio       | Seconds     | Ratio       | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 410.bwaves    | 8      | <b>870</b>  | <b>125</b>  | 869         | 125         | 871         | 125         |        |         |       |         |       |         |       |
| 416.gamess    | 8      | <b>1212</b> | <b>129</b>  | 1212        | 129         | 1212        | 129         |        |         |       |         |       |         |       |
| 433.milc      | 8      | 703         | 104         | <b>704</b>  | <b>104</b>  | 704         | 104         |        |         |       |         |       |         |       |
| 434.zeusmp    | 8      | 626         | 116         | 627         | 116         | <b>627</b>  | <b>116</b>  |        |         |       |         |       |         |       |
| 435.gromacs   | 8      | <b>508</b>  | <b>112</b>  | 508         | 112         | 509         | 112         |        |         |       |         |       |         |       |
| 436.cactusADM | 8      | 768         | 125         | 773         | 124         | <b>769</b>  | <b>124</b>  |        |         |       |         |       |         |       |
| 437.leslie3d  | 8      | 888         | 84.7        | <b>892</b>  | <b>84.3</b> | 893         | 84.2        |        |         |       |         |       |         |       |
| 444.namd      | 8      | 688         | 93.2        | 689         | 93.1        | <b>688</b>  | <b>93.2</b> |        |         |       |         |       |         |       |
| 447.dealII    | 8      | <b>636</b>  | <b>144</b>  | 629         | 146         | 638         | 143         |        |         |       |         |       |         |       |
| 450.soplex    | 8      | 779         | 85.7        | 778         | 85.8        | <b>779</b>  | <b>85.7</b> |        |         |       |         |       |         |       |
| 453.povray    | 8      | <b>302</b>  | <b>141</b>  | 300         | 142         | 303         | 141         |        |         |       |         |       |         |       |
| 454.calculix  | 8      | 479         | 138         | 480         | 138         | <b>479</b>  | <b>138</b>  |        |         |       |         |       |         |       |
| 459.GemsFDTD  | 8      | <b>1118</b> | <b>75.9</b> | 1118        | 75.9        | 1117        | 76.0        |        |         |       |         |       |         |       |
| 465.tonto     | 8      | <b>703</b>  | <b>112</b>  | 704         | 112         | 703         | 112         |        |         |       |         |       |         |       |
| 470.lbm       | 8      | 1373        | 80.0        | 1372        | 80.1        | <b>1373</b> | <b>80.1</b> |        |         |       |         |       |         |       |
| 481.wrf       | 8      | 645         | 139         | <b>645</b>  | <b>139</b>  | 645         | 139         |        |         |       |         |       |         |       |
| 482.sphinx3   | 8      | 1375        | 113         | <b>1376</b> | <b>113</b>  | 1376        | 113         |        |         |       |         |       |         |       |

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.

## General Notes

'numactl' was used to bind copies to the cores  
 'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run



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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:

-xSSE4.2 -ipo -O3 -no-prec-div -static

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static

Fortran benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static

Benchmarks using both Fortran and C:

-xSSE4.2 -ipo -O3 -no-prec-div -static



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The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.1.  
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