



# SPEC<sup>®</sup> CFP2006 Result

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## ACTION S.A.

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

ACTINA SOLAR 212 X2 (Intel Xeon E5410, 2.33 GHz)

### SPECfp\_rate\_base2006 = 36.9

CPU2006 license: 9008

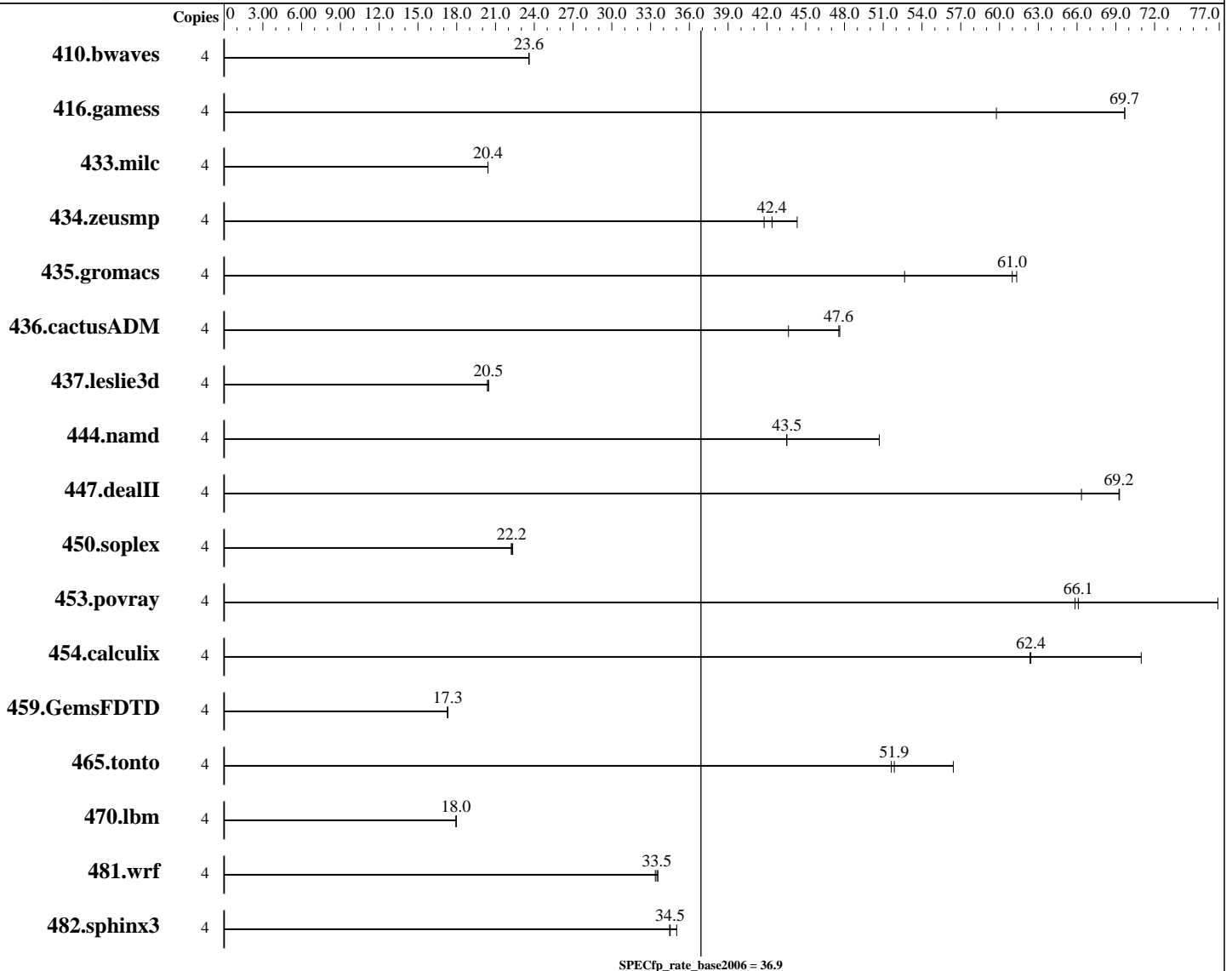
Test date: Dec-2008

Test sponsor: ACTION S.A.

Hardware Availability: Sep-2008

Tested by: ACTION S.A.

Software Availability: Nov-2008



### Hardware

CPU Name: Intel Xeon E5410  
 CPU Characteristics: 1333 MHz System Bus  
 CPU MHz: 2333  
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

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### 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 20080730 Package ID: l\_cproc\_b\_11.0.042, l\_fproc\_b\_11.0.042  
 Auto Parallel: No  
 File System: ReiserFS  
 System State: Run level 3 (multi-user)  
 Base Pointers: 64-bit

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L3 Cache: None  
Other Cache: None  
Memory: 16 GB (8x 2 GB, PC2-5300, CL 5-5-5, FB ECC)  
Disk Subsystem: 500 GB SATA, 7200 RPM  
Other Hardware: None

Peak Pointers: Not Applicable  
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	4	2304	23.6	2305	23.6	<b><u>2304</u></b>	<b><u>23.6</u></b>									
416.gamess	4	1124	69.7	1311	59.8	<b><u>1124</u></b>	<b><u>69.7</u></b>									
433.milc	4	1798	20.4	1799	20.4	<b><u>1798</u></b>	<b><u>20.4</u></b>									
434.zeusmp	4	<b><u>859</u></b>	<b><u>42.4</u></b>	871	41.8	821	44.3									
435.gromacs	4	466	61.3	542	52.7	<b><u>468</u></b>	<b><u>61.0</u></b>									
436.cactusADM	4	<b><u>1005</u></b>	<b><u>47.6</u></b>	1095	43.7	1003	47.6									
437.leslie3d	4	<b><u>1838</u></b>	<b><u>20.5</u></b>	1846	20.4	1837	20.5									
444.namd	4	737	43.5	<b><u>737</u></b>	<b><u>43.5</u></b>	633	50.7									
447.dealII	4	<b><u>661</u></b>	<b><u>69.2</u></b>	660	69.3	690	66.3									
450.soplex	4	1501	22.2	<b><u>1499</u></b>	<b><u>22.2</u></b>	1494	22.3									
453.povray	4	323	65.8	<b><u>322</u></b>	<b><u>66.1</u></b>	277	76.9									
454.calculix	4	529	62.4	<b><u>529</u></b>	<b><u>62.4</u></b>	465	71.0									
459.GemsFDTD	4	2457	17.3	<b><u>2451</u></b>	<b><u>17.3</u></b>	2451	17.3									
465.tonto	4	762	51.6	<b><u>759</u></b>	<b><u>51.9</u></b>	698	56.4									
470.lbm	4	<b><u>3062</u></b>	<b><u>18.0</u></b>	3062	17.9	3059	18.0									
481.wrf	4	<b><u>1334</u></b>	<b><u>33.5</u></b>	1339	33.4	1331	33.6									
482.sphinx3	4	<b><u>2258</u></b>	<b><u>34.5</u></b>	2262	34.5	2226	35.0									

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.

## Platform Notes

This result is measured on ACTINA SOLAR 222 X2.  
Note that the ACTINA SOLAR 222 X2 and ACTINA SOLAR 212 X2 are electrically equivalent.

## General Notes

taskset was used to bind processes to 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:

-xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

C++ benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

Fortran benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

Benchmarks using both Fortran and C:

-xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch



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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.20090713.02.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.20090713.02.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).

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