SPEC® CFP2006 Result

ACTION S.A.

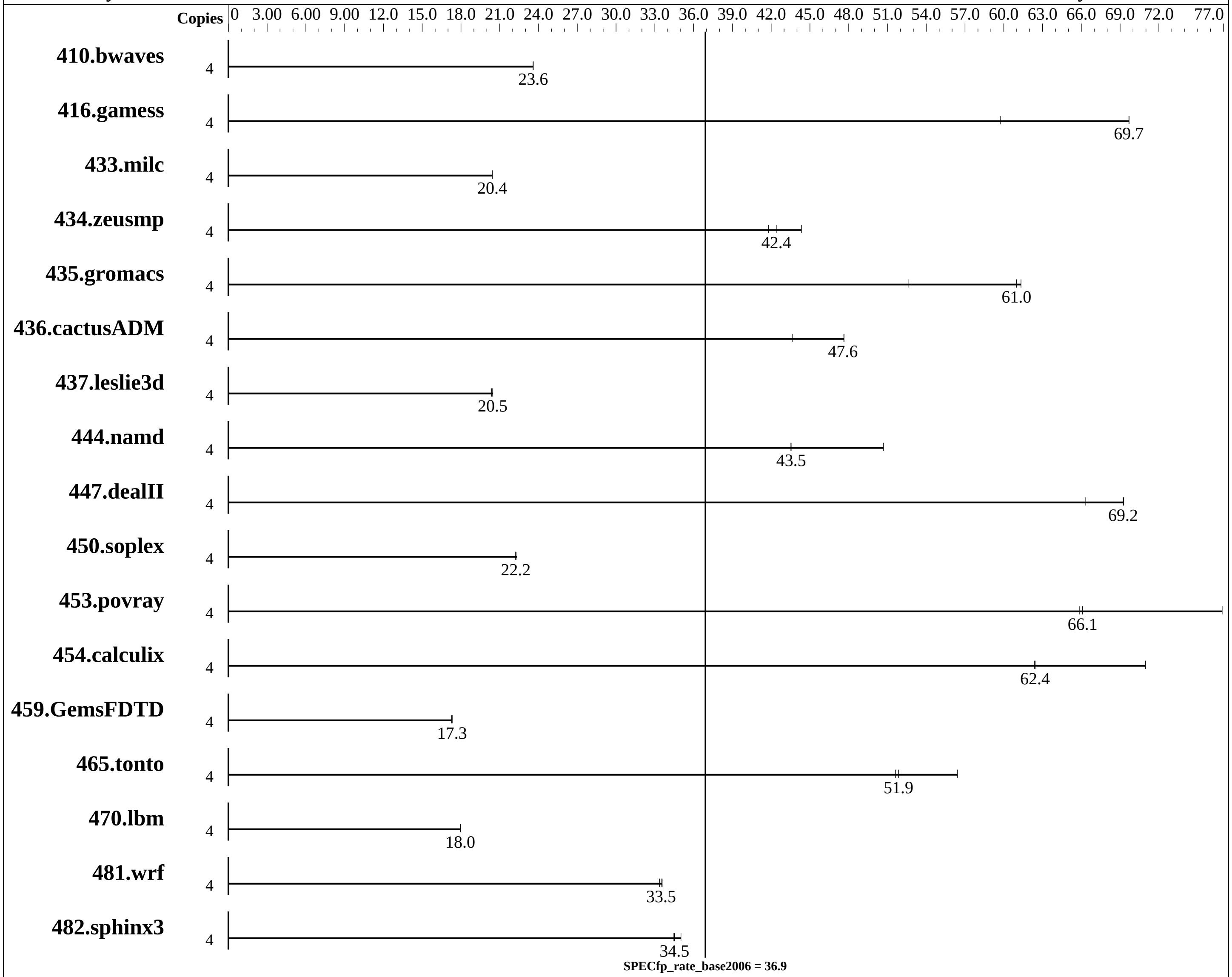
ACTINA SOLAR 222 X2 (Intel Xeon E5410, 2.33 GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 36.9

CPU2006 license: 9008
Test sponsor: ACTION S.A.
Tested by: ACTION S.A.

Test date: Dec-2008
Hardware Availability: Sep-2008
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

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	2304	23.6	2305	23.6	**2304**	**23.6**							
416.gamess	4	1124	69.7	1311	59.8	**1124**	**69.7**							
433.milc	4	1798	20.4	1799	20.4	**1798**	**20.4**							
434.zeusmp	4	**859**	**42.4**	871	41.8	821	44.3							
435.gromacs	4	466	61.3	542	52.7	**468**	**61.0**							
436.cactusADM	4	**1005**	**47.6**	1095	43.7	1003	47.6							
437.leslie3d	4	**1838**	**20.5**	1846	20.4	1837	20.5							
444.namd	4	737	43.5	**737**	**43.5**	633	50.7							
447.dealII	4	**661**	**69.2**	660	69.3	690	66.3							
450.soplex	4	1501	22.2	**1499**	**22.2**	1494	22.3							
453.povray	4	323	65.8	**322**	**66.1**	277	76.9							
454.calculix	4	529	62.4	**529**	**62.4**	465	71.0							
459.GemsFDTD	4	2457	17.3	**2451**	**17.3**	2451	17.3							
465.tonto	4	762	51.6	**759**	**51.9**	698	56.4							
470.lbm	4	**3062**	**18.0**	3062	17.9	3059	18.0							
481.wrf	4	**1334**	**33.5**	1339	33.4	1331	33.6							
482.sphinx3	4	**2258**	**34.5**	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 except
for 436.cactusADM peak
'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
```

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Test sponsor:	ACTION S.A.	**Hardware Availability:**	Sep-2008
Tested by:	ACTION S.A.	**Software Availability:**	Nov-2008

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

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

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