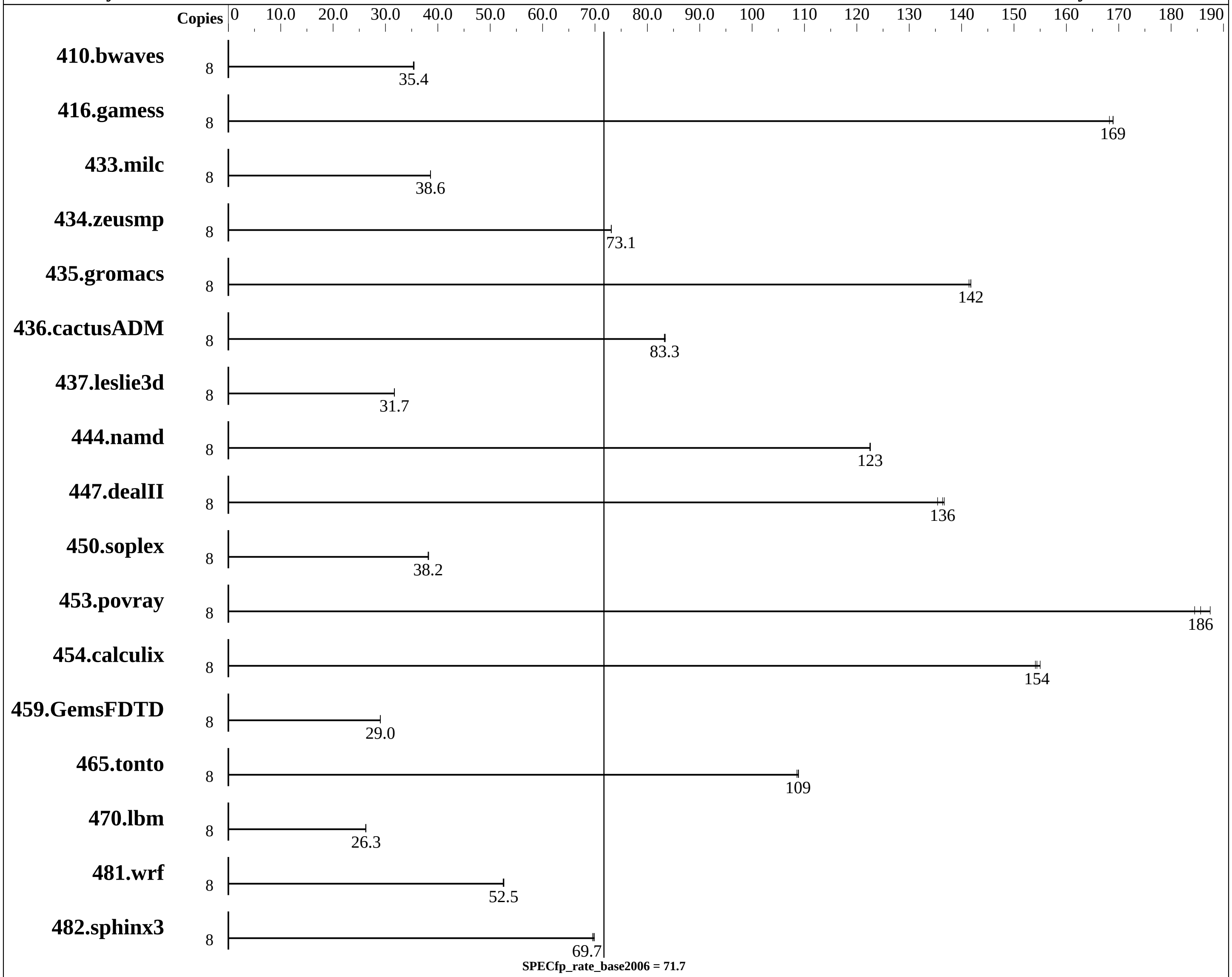
Itautec

Servidor Itautec MX221 (Intel Xeon E5440)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 71.7

CPU2006 license:	9001	**Test date:**	Jan-2009
Test sponsor:	Itautec	**Hardware Availability:**	Dec-2007
Tested by:	Itautec	**Software Availability:**	Nov-2008



Hardware

CPU Name:	Intel Xeon E5440
CPU Characteristics:	
CPU MHz:	2830
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:	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) SP2, Kernel 2.6.16-60.0.21-smp
Compiler:	Intel C++ and Fortran Compiler 11.0 for Linux Build 20081105 Package ID: l_cproc_b_11.0.074, l_fproc_b_11.0.074
Auto Parallel:	No
File System:	ReiserFS
System State:	Run level 3 (multi-user)
Base Pointers:	64-bit

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SPEC CFP2006 Result

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L3 Cache: None
Other Cache: None
Memory: 16 GB (4 * 4 GB PC2-5300 FBDIMM, CL-5-5-5, ECC)
Disk Subsystem: 1 x SAS, 36GB, 15000RPM
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	8	3064	35.5	3079	35.3	**3073**	**35.4**							
416.gamess	8	927	169	**927**	**169**	931	168							
433.milc	8	1903	38.6	1903	38.6	**1903**	**38.6**							
434.zeusmp	8	996	73.1	**996**	**73.1**	996	73.1							
435.gromacs	8	404	141	403	142	**403**	**142**							
436.cactusADM	8	1149	83.2	1146	83.4	**1147**	**83.3**							
437.leslie3d	8	2373	31.7	2370	31.7	**2372**	**31.7**							
444.namd	8	523	123	**524**	**123**	524	122							
447.dealII	8	**671**	**136**	676	135	670	137							
450.soplex	8	1750	38.1	1744	38.3	**1748**	**38.2**							
453.povray	8	227	187	**229**	**186**	231	184							
454.calculix	8	428	154	426	155	**428**	**154**							
459.GemsFDTD	8	**2924**	**29.0**	2925	29.0	2924	29.0							
465.tonto	8	**724**	**109**	725	109	723	109							
470.lbm	8	4195	26.2	**4182**	**26.3**	4181	26.3							
481.wrf	8	**1701**	**52.5**	1703	52.5	1698	52.6							
482.sphinx3	8	2243	69.5	2231	69.9	**2236**	**69.7**							

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.
```

Operating System Notes

```
'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run.
'/usr/bin/taskset' used to bind benchmark copies to processors.
```

Platform Notes

```
BIOS Settings:
Hardware Prefetcher Disabled
```

General Notes

```
This result was measured on the Servidor Itautec MX221.
The Servidor Itautec MX221 and the Servidor Itautec MX201 are electronically equivalent.
```

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`

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Base Optimization Flags (Continued)

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`

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.html
http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revE.20090710.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.xml
http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revE.20090710.xml

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

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