SPEC® CFP2006 Result

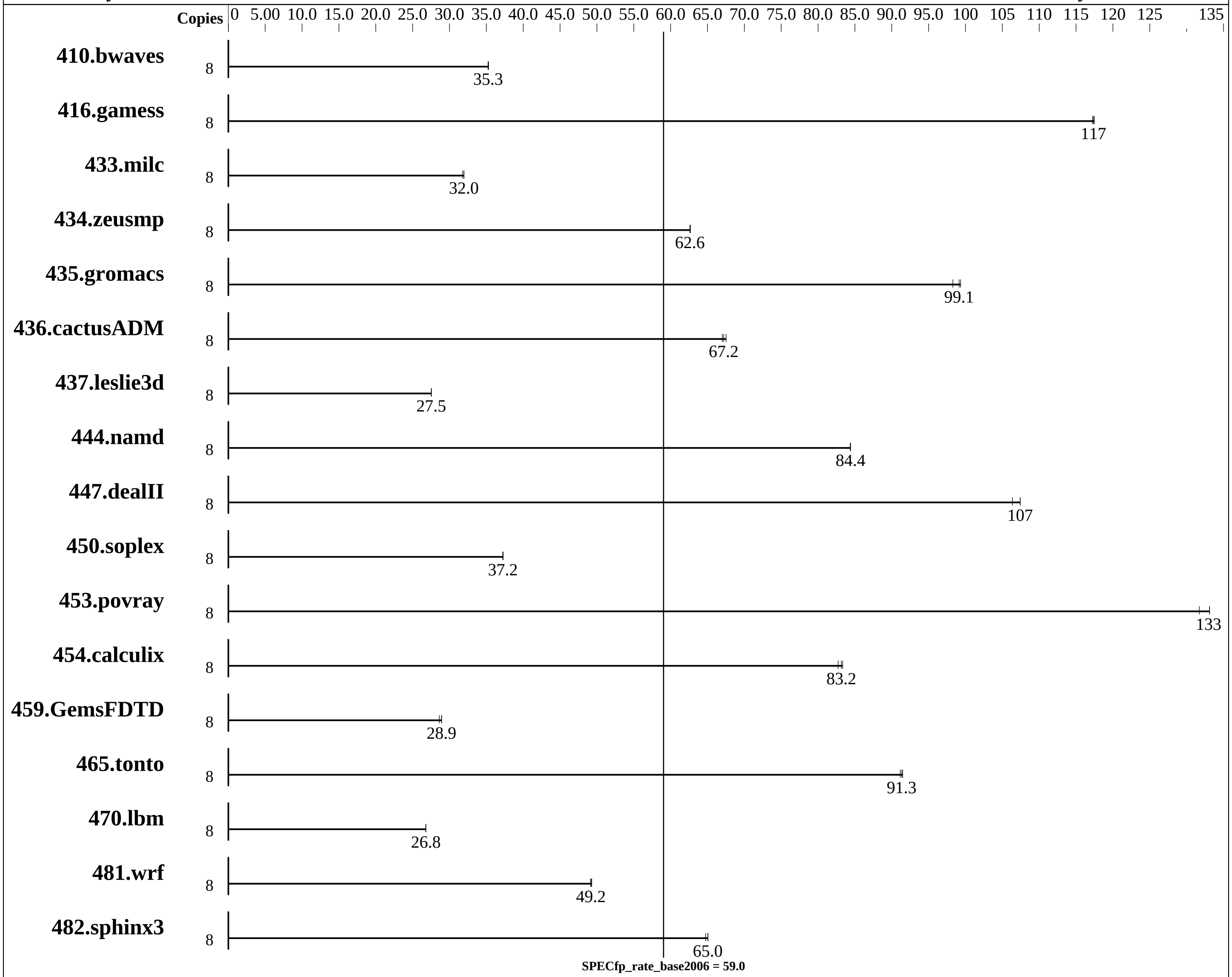
Itautec

Servidor Itautec MX201 (Intel Xeon E5405)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 59.0

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



Hardware

CPU Name:	Intel Xeon E5405
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:	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) SP1, Kernel 2.6.16.46-0.12-smp
Compiler:	Intel C++ Compiler for Linux64 version 10.1 Build 20080112 Package ID: l_fc_p_10.1.012 Intel Fortran Compiler for Linux64 version 10.1 Build 20080112 Package ID: l_cc_p_10.1.012
Auto Parallel:	No
File System:	ReiserFS

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L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8 * 2 GB DDR2 5300F, 2 rank, CL5 ECC)
Disk Subsystem:	1 x SCSI, 73GB, 15000RPM
Other Hardware:	None

System State:	Multi-User, Run Level 3
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other Software:	Binutils 2.17.10.50 MicroQuill SmartHeap 8.1

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3086	35.2	3080	35.3	**3084**	**35.3**							
416.gamess	8	1333	117	1336	117	**1335**	**117**							
433.milc	8	2298	32.0	**2298**	**32.0**	2311	31.8							
434.zeusmp	8	**1163**	**62.6**	1161	62.7	1163	62.6							
435.gromacs	8	**576**	**99.1**	581	98.3	575	99.3							
436.cactusADM	8	1416	67.5	1427	67.0	**1423**	**67.2**							
437.leslie3d	8	2732	27.5	**2731**	**27.5**	2731	27.5							
444.namd	8	**760**	**84.4**	760	84.4	760	84.4							
447.dealII	8	860	106	**852**	**107**	852	107							
450.soplex	8	1790	37.3	**1792**	**37.2**	1792	37.2							
453.povray	8	**320**	**133**	323	132	320	133							
454.calculix	8	792	83.3	798	82.7	**794**	**83.2**							
459.GemsFDTD	8	**2935**	**28.9**	2966	28.6	2933	28.9							
465.tonto	8	**862**	**91.3**	861	91.5	864	91.2							
470.lbm	8	4102	26.8	**4100**	**26.8**	4100	26.8							
481.wrf	8	1813	49.3	**1816**	**49.2**	1818	49.1							
482.sphinx3	8	2397	65.1	**2397**	**65.0**	2408	64.7							

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

Operating System Notes

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

Platform Notes

```
BIOS configuration:
Hardware Prefetcher Disabled (default Enabled)
```

General Notes

```
This result was measured on the Servidor Itautec MX201.
The Servidor Itautec MX201 and the Servidor Itautec MX221 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:
`-fast`

C++ benchmarks:
`-fast`

Fortran benchmarks:
`-fast`

Benchmarks using both Fortran and C:
`-fast`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Itautec-ic10.1-FP-intel64-linux-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Itautec-ic10.1-FP-intel64-linux-flags.xml

Tested with SPEC CPU2006 v1.0.1.
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