SPEC® CFP2006 Result

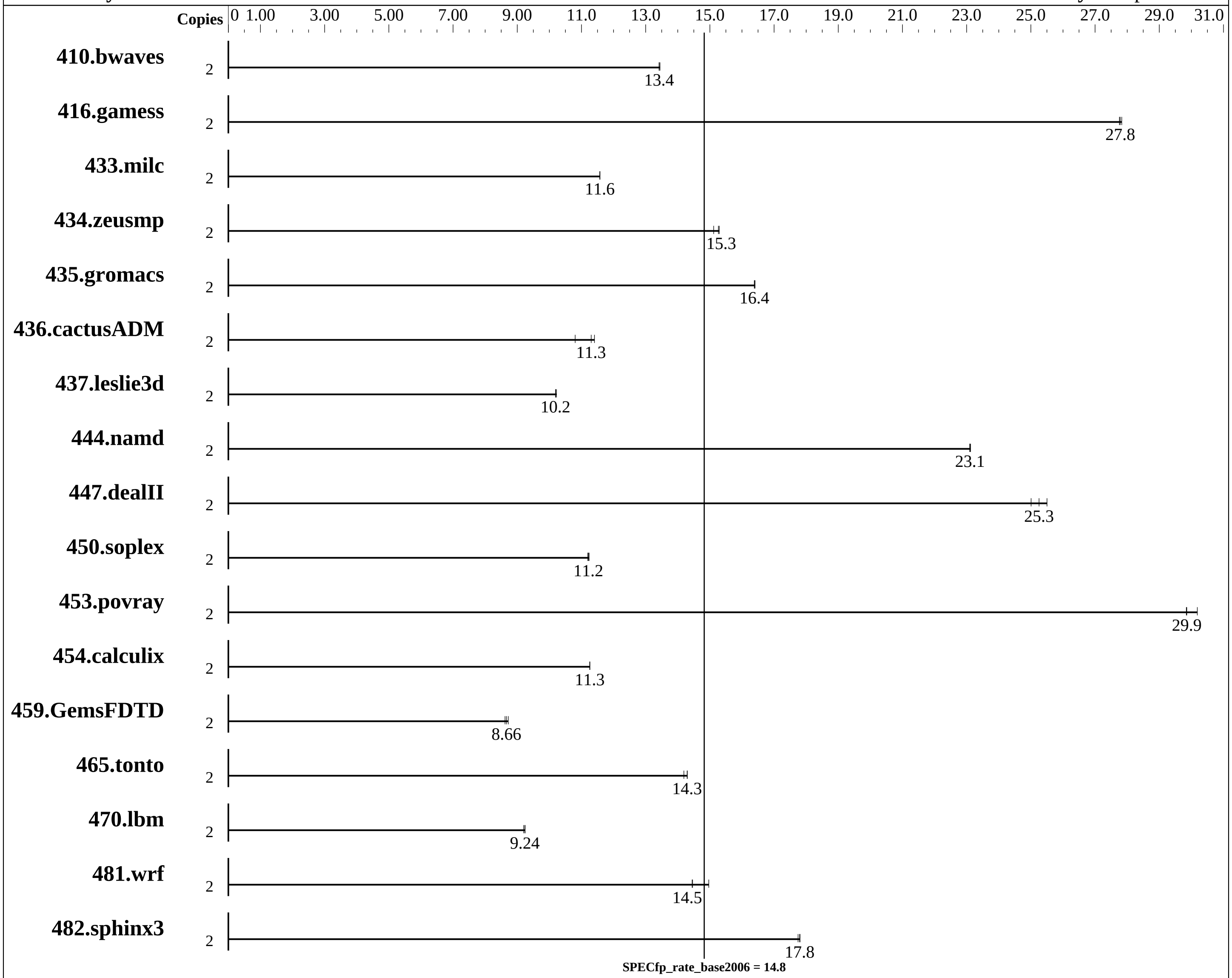
Itautec

Servidor Itautec LR101 (AMD Opteron 1218)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 14.8

CPU2006 license:	9001	**Test date:**	Dec-2007
Test sponsor:	Itautec	**Hardware Availability:**	Jan-2008
Tested by:	Itautec	**Software Availability:**	Apr-2006



Hardware

CPU Name:	AMD Opteron 1218
CPU Characteristics:	
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core

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Software

Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler:	gcc, g++, gfortran 4.1.2
Auto Parallel:	No
File System:	ReiserFS
System State:	Multi-user, run level 3
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other Software:	None

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L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1GB, DDR2-400 CL3)
Disk Subsystem:	200 GB SATA, 7200RPM
Other Hardware:	None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	**2025**	**13.4**	2026	13.4	2021	13.4							
416.gamess	2	1411	27.8	**1409**	**27.8**	1407	27.8							
433.milc	2	**1586**	**11.6**	1587	11.6	1586	11.6							
434.zeusmp	2	1204	15.1	**1192**	**15.3**	1190	15.3							
435.gromacs	2	872	16.4	870	16.4	**871**	**16.4**							
436.cactusADM	2	**2115**	**11.3**	2095	11.4	2212	10.8							
437.leslie3d	2	1839	10.2	**1844**	**10.2**	1845	10.2							
444.namd	2	695	23.1	**694**	**23.1**	694	23.1							
447.dealII	2	915	25.0	897	25.5	**906**	**25.3**							
450.soplex	2	1490	11.2	1484	11.2	**1487**	**11.2**							
453.povray	2	357	29.8	352	30.2	**356**	**29.9**							
454.calculix	2	1465	11.3	**1465**	**11.3**	1466	11.3							
459.GemsFDTD	2	2462	8.62	2434	8.72	**2449**	**8.66**							
465.tonto	2	**1377**	**14.3**	1376	14.3	1387	14.2							
470.lbm	2	**2975**	**9.24**	2972	9.24	2987	9.20							
481.wrf	2	1493	15.0	**1545**	**14.5**	1546	14.4							
482.sphinx3	2	2189	17.8	2196	17.7	**2190**	**17.8**							

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

General Notes

```
wrf needs "wrf_data_header_size = 8" set in the config file to read the unformatted
data input file correctly on this system.
```

Base Compiler Invocation

C benchmarks:
`gcc`

C++ benchmarks:
`g++`

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Base Compiler Invocation (Continued)

Fortran benchmarks:
gfortran

Benchmarks using both Fortran and C:
gcc gfortran

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
436.cactusADM: -DSPEC_CPU_LP64
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
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:
-O3 -fno-inline-functions -funroll-loops

C++ benchmarks:
-O3 -funroll-loops

Fortran benchmarks:
-O3 -fno-inline-functions -funroll-loops

Benchmarks using both Fortran and C:
-O3 -fno-inline-functions -funroll-loops

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.00.xml

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

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