



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECfp®_rate2006 = 35.7

Servidor Itautec LX211 (Intel Xeon E5430)

SPECfp_rate_base2006 = 34.9

CPU2006 license: 9001

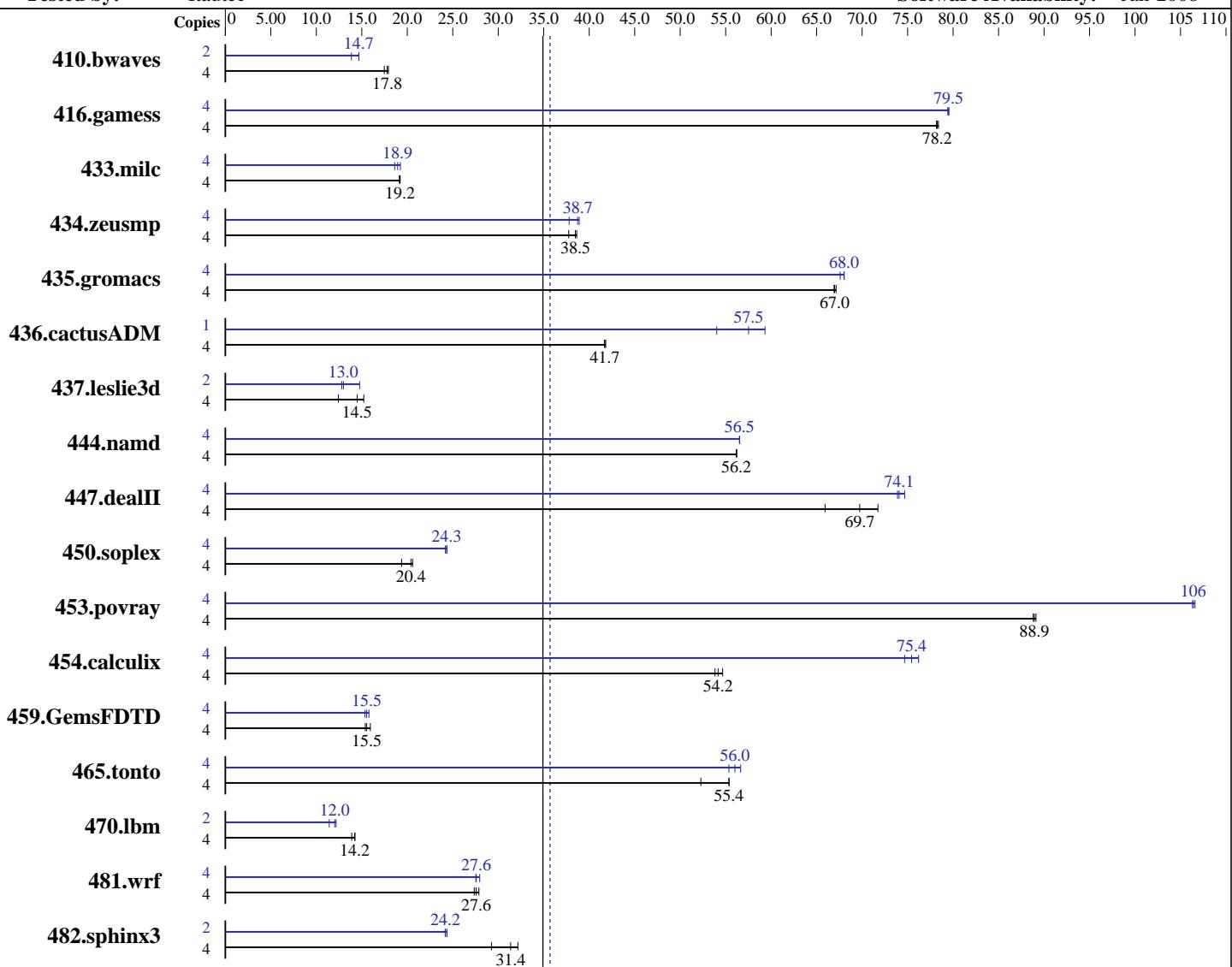
Test date: Mar-2008

Test sponsor: Itautec

Hardware Availability: Dec-2007

Tested by: Itautec

Software Availability: Jan-2008



CPU Name:

Hardware

Intel Xeon E5430

CPU Characteristics:

2660

CPU MHz:

Integrated

FPU:

4 cores, 1 chip, 4 cores/chip

CPU(s) enabled:

4 cores

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

Operating System:

SUSE Linux Enterprise Server 10 (x86_64) SP1,
Kernel 2.6.16.46-0.12-smp

Compiler:

Intel C++ and Fortran Compiler 10.1 for Linux
Build 20080112 Package ID: 1_cc_p_10.1.012,
1_fc_p_10.1.012

Auto Parallel:

Yes

File System:

ReiserFS

System State:

Run Level 3 (multi-user)

Base Pointers:

64-bit

Continued on next page

Software

info@spec.org

http://www.spec.org/



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECfp_rate2006 = 35.7

Servidor Itautec LX211 (Intel Xeon E5430)

SPECfp_rate_base2006 = 34.9

CPU2006 license: 9001

Test date: Mar-2008

Test sponsor: Itautec

Hardware Availability: Dec-2007

Tested by: Itautec

Software Availability: Jan-2008

L3 Cache: None

Peak Pointers: 32/64-bit

Other Cache: None

Other Software: Binutils 2.17.10.50

Memory: 4 GB (4 * 1 GB PC2-5300 FBDIMM, CL-5-5-5, ECC)

Disk Subsystem: 1 x SCSI, 73GB, 10000 RPM

Other Hardware: None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	3055	17.8	3111	17.5	3032	17.9	2	1851	14.7	1961	13.9	1853	14.7
416.gamess	4	999	78.4	1002	78.2	1001	78.2	4	985	79.5	985	79.5	986	79.4
433.milc	4	1911	19.2	1920	19.1	1912	19.2	4	1972	18.6	1908	19.2	1938	18.9
434.zeusmp	4	964	37.7	946	38.5	942	38.6	4	963	37.8	936	38.9	940	38.7
435.gromacs	4	426	67.0	425	67.1	427	66.9	4	420	68.0	420	68.0	423	67.6
436.cactusADM	4	1146	41.7	1143	41.8	1147	41.7	1	201	59.3	221	54.0	208	57.5
437.leslie3d	4	3026	12.4	2471	15.2	2594	14.5	2	1274	14.8	1468	12.8	1448	13.0
444.namd	4	571	56.2	571	56.2	571	56.2	4	568	56.5	568	56.5	567	56.5
447.dealII	4	656	69.7	694	65.9	638	71.7	4	618	74.1	619	73.9	613	74.7
450.soplex	4	1722	19.4	1635	20.4	1620	20.6	4	1368	24.4	1372	24.3	1379	24.2
453.povray	4	239	88.9	239	89.1	240	88.8	4	200	107	200	106	200	106
454.calculix	4	613	53.8	604	54.7	609	54.2	4	437	75.4	433	76.2	442	74.7
459.GemsFDTD	4	2662	15.9	2731	15.5	2759	15.4	4	2688	15.8	2732	15.5	2764	15.4
465.tonto	4	753	52.3	711	55.4	711	55.4	4	695	56.6	711	55.4	703	56.0
470.lbm	4	3956	13.9	3864	14.2	3856	14.3	2	2406	11.4	2286	12.0	2257	12.2
481.wrf	4	1603	27.9	1633	27.4	1620	27.6	4	1598	28.0	1619	27.6	1622	27.5
482.sphinx3	4	2664	29.3	2485	31.4	2424	32.2	2	1600	24.4	1610	24.2	1613	24.2

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

Compiler Invocation Notes

OMP_NUM_THREADS set to number of cores
KMP_STACK_SIZE set to 64M
KMP_AFFINITY set to physical,0

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.



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECfp_rate2006 = 35.7

Servidor Itautec LX211 (Intel Xeon E5430)

SPECfp_rate_base2006 = 34.9

CPU2006 license: 9001

Test date: Mar-2008

Test sponsor: Itautec

Hardware Availability: Dec-2007

Tested by: Itautec

Software Availability: Jan-2008

Platform Notes

BIOS configuration:
Hardware Prefetch Disabled

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECfp_rate2006 = 35.7

Servidor Itautec LX211 (Intel Xeon E5430)

SPECfp_rate_base2006 = 34.9

CPU2006 license: 9001

Test date: Mar-2008

Test sponsor: Itautec

Hardware Availability: Dec-2007

Tested by: Itautec

Software Availability: Jan-2008

Base Optimization Flags (Continued)

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast

Peak Compiler Invocation

C benchmarks (except as noted below):

/opt/intel/cc/10.1.012/bin/icc -L/opt/intel/cc/10.1.012/lib
-I/opt/intel/cc/10.1.012/include

433.milc: icc

C++ benchmarks (except as noted below):

icpc

450.soplex: /opt/intel/cc/10.1.012/bin/icpc -L/opt/intel/cc/10.1.012/lib
-I/opt/intel/cc/10.1.012/include

Fortran benchmarks (except as noted below):

ifort

437.leslie3d: /opt/intel/fc/10.1.012/bin/ifort -L/opt/intel/fc/10.1.012/lib
-I/opt/intel/fc/10.1.012/include

Benchmarks using both Fortran and C:

icc ifort

Peak 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
444.namd: -DSPEC_CPU_LP64
447.dealII: -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
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaute

SPECfp_rate2006 = 35.7

Servidor Itaute LX211 (Intel Xeon E5430)

SPECfp_rate_base2006 = 34.9

CPU2006 license: 9001

Test date: Mar-2008

Test sponsor: Itaute

Hardware Availability: Dec-2007

Tested by: Itaute

Software Availability: Jan-2008

Peak Optimization Flags

C benchmarks:

433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-scalar-rep- -prefetch -opt-malloc-options=3

482.sphinx3: -fast -unroll2

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -fast
-opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast -prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -O0
-ansi-alias -scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -fast

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-opt-malloc-options=3

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -O0
-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-prefetch -parallel -auto-ilp32

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautech

SPECfp_rate2006 = 35.7

Servidor Itautech LX211 (Intel Xeon E5430)

SPECfp_rate_base2006 = 34.9

CPU2006 license: 9001

Test date: Mar-2008

Test sponsor: Itautech

Hardware Availability: Dec-2007

Tested by: Itautech

Software Availability: Jan-2008

Peak Optimization Flags (Continued)

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Itautech-ic10.1-FP-intel64-linux-flags.20090713.00.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Itautech-ic10.1-FP-intel64-linux-flags.20090713.00.xml>

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.0.1.

Report generated on Tue Jul 22 18:27:03 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 15 April 2008.