



SPEC® CFP2006 Result

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Itautec

SPECfp®_rate2006 = 41.3

Servidor Itautec MX201 (Intel Xeon E5430)

SPECfp_rate_base2006 = 38.6

CPU2006 license: 9001

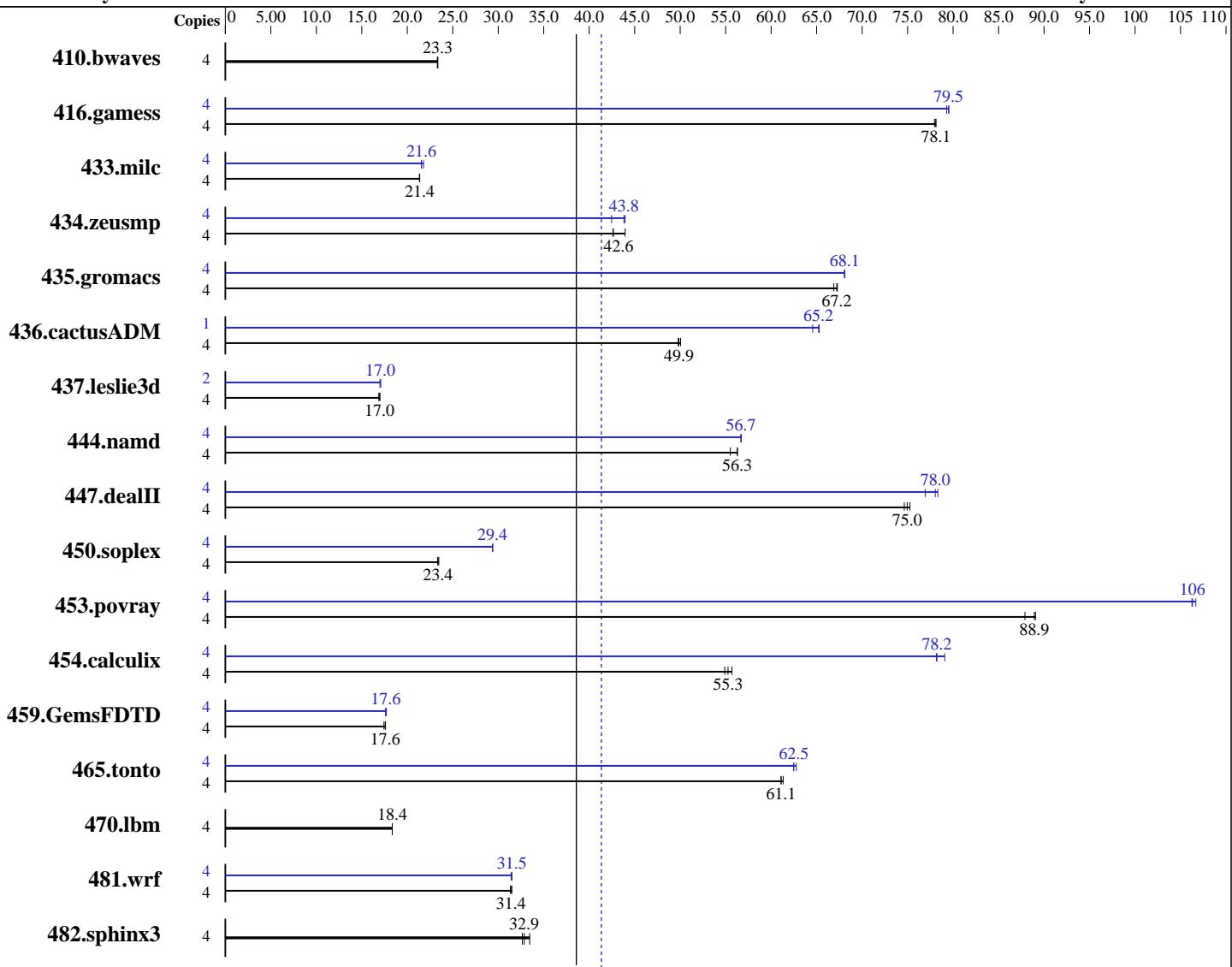
Test date: Apr-2008

Test sponsor: Itautec

Hardware Availability: Dec-2007

Tested by: Itautec

Software Availability: Jan-2008



Hardware

CPU Name: Intel Xeon E5430
CPU Characteristics:
CPU MHz:
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

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler: Intel C++ and Fortran Compiler for Linux version 10.1 Build 20080112 Package ID: l_cc_p_10.1.012, l_fc_p_10.1.012
Auto Parallel: Yes
File System: ReiserFS
System State: Run Level 3 (multi-user)

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L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8 * 2 GB PC2-5300 FBDIMM, CL-5-5-5, ECC)
 Disk Subsystem: 1 x SCSI, 73GB, 15000 RPM
 Other Hardware: None

Base Pointers: 64-bit
 Peak Pointers: 32/64-bit
 Other Software: Binutils 2.17.10.50

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	2328	23.3	2332	23.3	2327	23.4	4	2328	23.3	2332	23.3	2327	23.4
416.gamess	4	1005	78.0	1003	78.1	1003	78.1	4	985	79.5	988	79.3	985	79.5
433.milc	4	1721	21.3	1718	21.4	1719	21.4	4	1702	21.6	1704	21.5	1685	21.8
434.zeusmp	4	853	42.6	854	42.6	828	44.0	4	831	43.8	828	43.9	857	42.5
435.gromacs	4	425	67.2	427	66.9	425	67.3	4	419	68.1	420	68.0	419	68.1
436.cactusADM	4	955	50.0	959	49.9	960	49.8	1	185	64.6	183	65.2	183	65.3
437.leslie3d	4	2213	17.0	2230	16.9	2217	17.0	2	1103	17.0	1106	17.0	1101	17.1
444.namd	4	578	55.5	570	56.3	570	56.3	4	566	56.7	566	56.7	566	56.7
447.dealII	4	613	74.6	611	75.0	608	75.3	4	595	76.9	584	78.3	586	78.0
450.soplex	4	1427	23.4	1429	23.3	1422	23.5	4	1135	29.4	1135	29.4	1136	29.4
453.povray	4	239	89.1	239	88.9	242	87.9	4	200	106	199	107	200	106
454.calculix	4	597	55.3	593	55.7	601	54.9	4	422	78.2	417	79.1	422	78.2
459.GemsFDTD	4	2414	17.6	2410	17.6	2434	17.4	4	2397	17.7	2408	17.6	2406	17.6
465.tonto	4	642	61.3	644	61.1	644	61.1	4	630	62.5	627	62.8	630	62.5
470.lbm	4	2995	18.4	2995	18.3	2994	18.4	4	2995	18.4	2995	18.3	2994	18.4
481.wrf	4	1426	31.3	1423	31.4	1419	31.5	4	1418	31.5	1422	31.4	1418	31.5
482.sphinx3	4	2388	32.6	2373	32.9	2330	33.5	4	2388	32.6	2373	32.9	2330	33.5

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, except for 436.cactusADM at peak.



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Platform Notes

BIOS configuration:
Hardware Prefetch Disabled

General Notes

This result was measured on the Servidor Itaute MX201.

The Servidor Itaute MX201 and the Servidor Itaute 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



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Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

Peak Compiler Invocation

C benchmarks:
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

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Peak Portability Flags (Continued)

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

Peak Optimization Flags

C benchmarks:

433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32
470.lbm: basepeak = yes
482.sphinx3: basepeak = yes

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: basepeak = yes
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

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SPEC CFP2006 Result

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Itautech

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Tested by: Itautech

Software Availability: Jan-2008

Peak Optimization Flags (Continued)

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

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>

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For other inquiries, please contact webmaster@spec.org.

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