



SPEC® CFP2006 Result

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Itautec

SPECfp®_rate2006 = 37.5

Servidor Itautec MX201 (Intel Xeon E5410)

SPECfp_rate_base2006 = 36.4

CPU2006 license: 9001

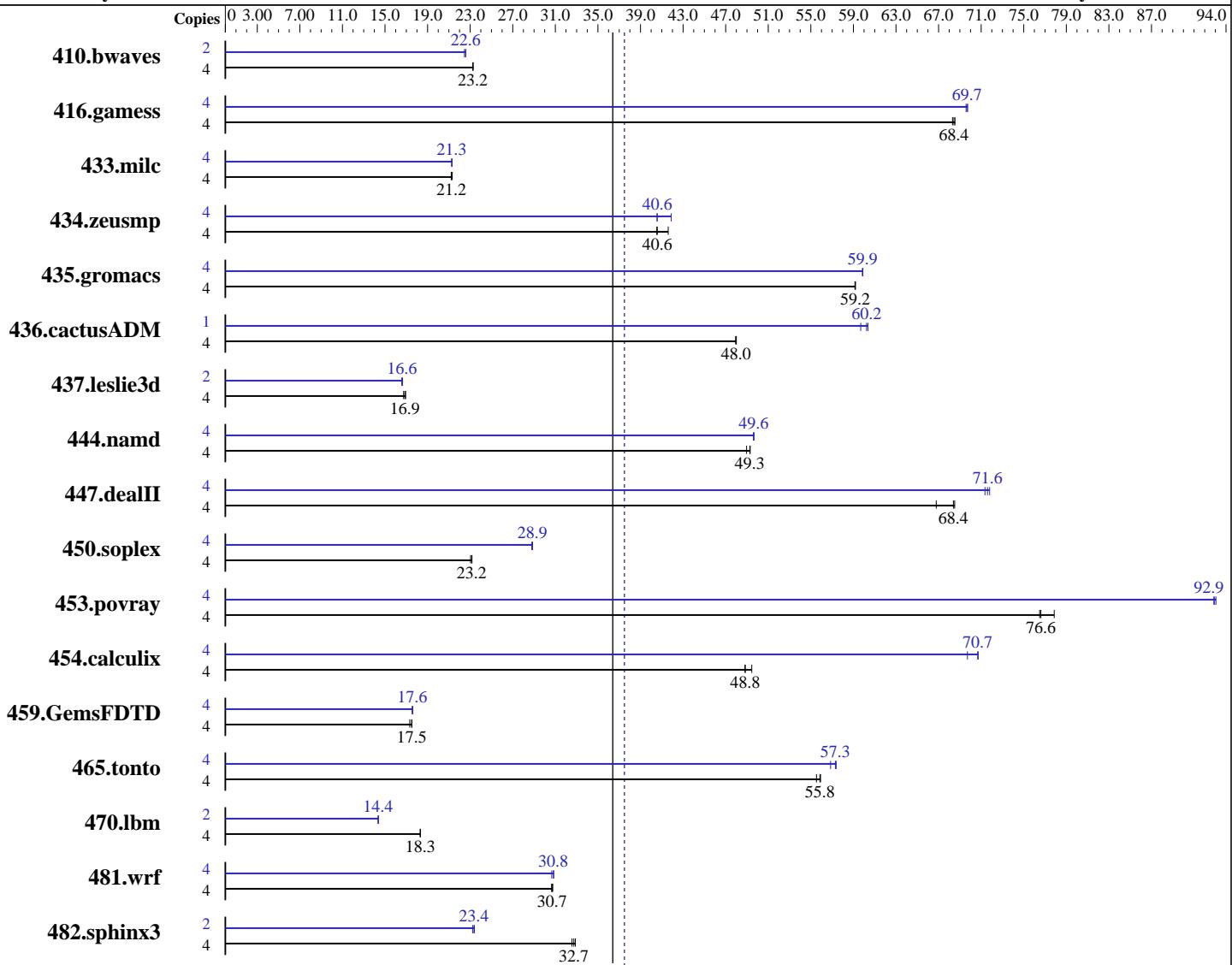
Test date: Mar-2008

Test sponsor: Itautec

Hardware Availability: Dec-2007

Tested by: Itautec

Software Availability: Jan-2008



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Hardware

CPU Name: Intel Xeon E5410
 CPU Characteristics:
 CPU MHz: 2330
 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 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

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L3 Cache: None

Peak Pointers: 32/64-bit

Other Cache: None

Other Software: Binutils 2.17.10.50

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

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	2339	23.2	2334	23.3	2339	23.2	2	1204	22.6	1210	22.5	1204	22.6
416.gamess	4	1143	68.5	1147	68.3	1144	68.4	4	1123	69.7	1126	69.6	1124	69.7
433.milc	4	1730	21.2	1723	21.3	1729	21.2	4	1726	21.3	1725	21.3	1727	21.3
434.zeusmp	4	875	41.6	898	40.5	897	40.6	4	897	40.6	869	41.9	898	40.6
435.gromacs	4	483	59.2	483	59.1	483	59.2	4	477	59.9	477	59.9	477	59.9
436.cactusADM	4	996	48.0	997	47.9	996	48.0	1	198	60.2	198	60.4	200	59.7
437.leslie3d	4	2230	16.9	2220	16.9	2245	16.7	2	1133	16.6	1133	16.6	1129	16.7
444.namd	4	651	49.3	651	49.3	655	49.0	4	646	49.6	646	49.7	646	49.6
447.dealII	4	669	68.4	685	66.8	668	68.5	4	637	71.8	639	71.6	641	71.4
450.soplex	4	1440	23.2	1441	23.2	1448	23.0	4	1156	28.9	1159	28.8	1156	28.9
453.povray	4	278	76.6	278	76.5	273	77.9	4	229	93.1	229	92.9	229	92.9
454.calculix	4	676	48.8	667	49.5	676	48.8	4	467	70.7	467	70.7	473	69.7
459.GemsFDTD	4	2424	17.5	2450	17.3	2423	17.5	4	2410	17.6	2418	17.6	2415	17.6
465.tonto	4	704	55.9	705	55.8	709	55.5	4	687	57.3	686	57.4	692	56.9
470.lbm	4	3000	18.3	3000	18.3	3001	18.3	2	1914	14.4	1913	14.4	1913	14.4
481.wrf	4	1458	30.6	1453	30.8	1455	30.7	4	1448	30.8	1450	30.8	1457	30.7
482.sphinx3	4	2394	32.6	2371	32.9	2381	32.7	2	1666	23.4	1678	23.2	1669	23.4

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.



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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 (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

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Peak Portability Flags (Continued)

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

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

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Peak Optimization Flags (Continued)

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14 -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 -unroll12
-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/Itaute-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/Itaute-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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