



SPEC® CFP2006 Result

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Itautec

SPECfp®_rate2006 = 73.1

Servidor Itautec LX113 (Intel Xeon X3440)

SPECfp_rate_base2006 = 70.2

CPU2006 license: 9001

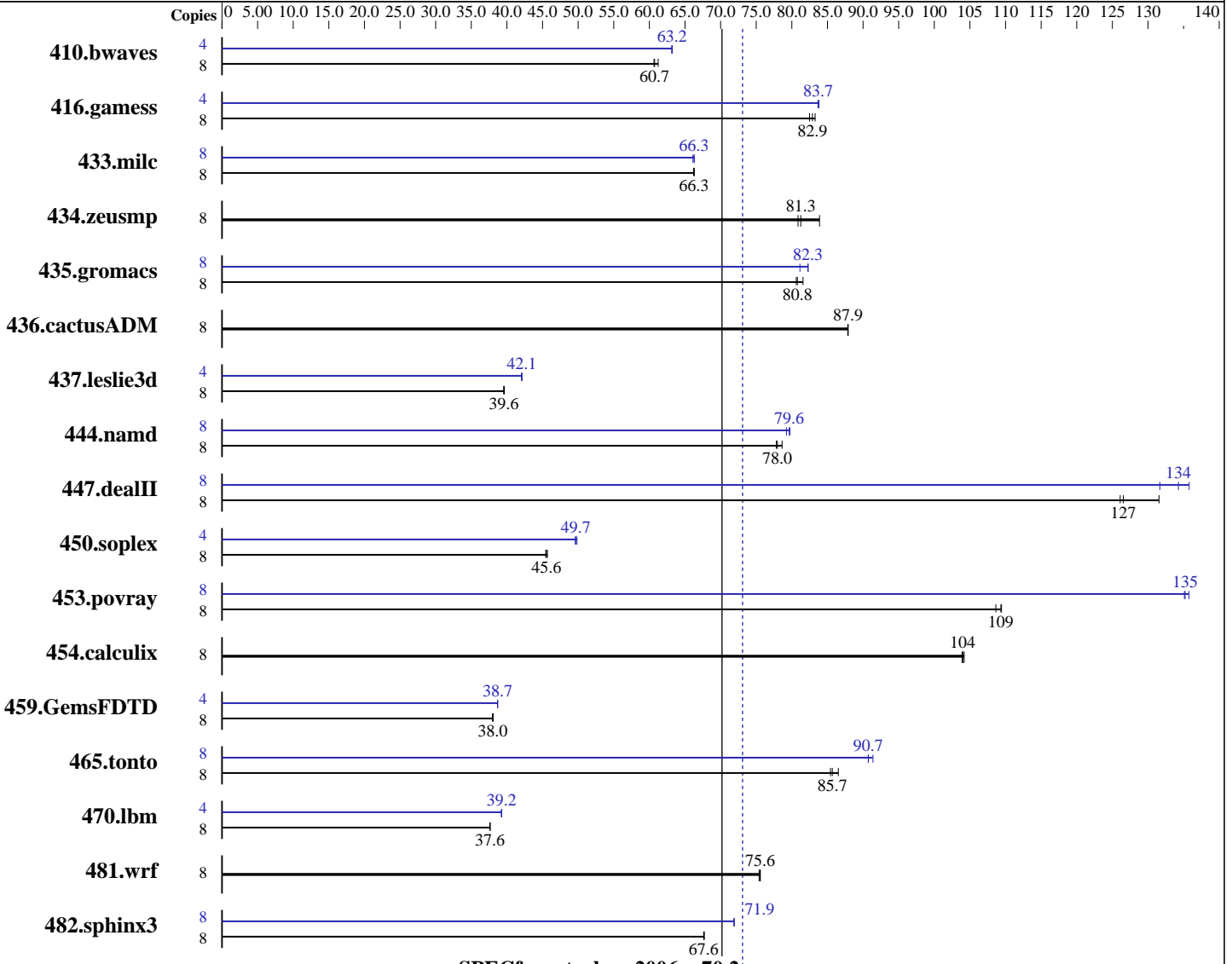
Test sponsor: Itautec

Tested by: Itautec

Test date: Jul-2010

Hardware Availability: Dec-2009

Software Availability: Apr-2010



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Hardware

CPU Name: Intel Xeon X3440
 CPU Characteristics: Intel Turbo Boost Technology up to 2.93 GHz
 CPU MHz: 2533
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core

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Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-smp
 Compiler: Intel C++ and Fortran Professional Compiler 11.1 for Linux
 Build 20100414 Package ID: l_cproc_p_11.1.072, l_cprof_p_11.1.072
 Auto Parallel: No
 File System: ReiserFS
 System State: Run level 3 (multi-user)

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L3 Cache: 8 MB I+D on chip per chip
Other Cache: None
Memory: 8 GB (4 x 2GB, DDR3-1333, Dual Rank, CL 9, ECC)
Disk Subsystem: 1 x 160 GB SATA-2, 7200 RPM
Other Hardware: None

Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	1775	61.2	<u>1790</u>	<u>60.7</u>	1793	60.6	4	861	63.1	860	63.2	<u>860</u>	<u>63.2</u>
416.gamess	8	<u>1890</u>	<u>82.9</u>	1881	83.3	1899	82.5	4	934	83.8	<u>936</u>	<u>83.7</u>	936	83.7
433.milc	8	1108	66.3	<u>1108</u>	<u>66.3</u>	1109	66.2	8	<u>1108</u>	<u>66.3</u>	1111	66.1	1108	66.3
434.zeusmp	8	868	83.9	900	80.9	<u>896</u>	<u>81.3</u>	8	868	83.9	900	80.9	<u>896</u>	<u>81.3</u>
435.gromacs	8	708	80.6	<u>707</u>	<u>80.8</u>	700	81.6	8	694	82.3	704	81.1	<u>694</u>	<u>82.3</u>
436.cactusADM	8	1088	87.9	1087	87.9	<u>1088</u>	<u>87.9</u>	8	1088	87.9	1087	87.9	<u>1088</u>	<u>87.9</u>
437.leslie3d	8	<u>1900</u>	<u>39.6</u>	1897	39.6	1901	39.6	4	893	42.1	<u>894</u>	<u>42.1</u>	894	42.0
444.namd	8	816	78.6	<u>823</u>	<u>78.0</u>	824	77.8	8	810	79.3	<u>806</u>	<u>79.6</u>	805	79.7
447.dealII	8	726	126	696	132	<u>723</u>	<u>127</u>	8	674	136	<u>682</u>	<u>134</u>	695	132
450.soplex	8	1468	45.4	1461	45.7	<u>1464</u>	<u>45.6</u>	4	<u>672</u>	<u>49.7</u>	669	49.8	673	49.6
453.povray	8	<u>389</u>	<u>109</u>	389	109	392	109	8	315	135	314	136	<u>315</u>	<u>135</u>
454.calculix	8	633	104	635	104	<u>635</u>	<u>104</u>	8	633	104	635	104	<u>635</u>	<u>104</u>
459.GemsFDTD	8	2230	38.1	2235	38.0	<u>2233</u>	<u>38.0</u>	4	1097	38.7	<u>1097</u>	<u>38.7</u>	1097	38.7
465.tonto	8	910	86.5	<u>919</u>	<u>85.7</u>	921	85.4	8	868	90.7	861	91.4	<u>867</u>	<u>90.7</u>
470.lbm	8	2921	37.6	<u>2921</u>	<u>37.6</u>	2921	37.6	4	1400	39.3	<u>1401</u>	<u>39.2</u>	1401	39.2
481.wrf	8	1185	75.4	<u>1183</u>	<u>75.6</u>	1182	75.6	8	1185	75.4	<u>1183</u>	<u>75.6</u>	1182	75.6
482.sphinx3	8	2302	67.7	<u>2305</u>	<u>67.6</u>	2305	67.6	8	<u>2169</u>	<u>71.9</u>	2169	71.9	2168	71.9

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

Submit Notes

The config file option 'submit' was used.
numactl was used to bind copies to the cores

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run.

General Notes

This result was measured on the Servidor Itautec LX103.
The Servidor Itautec LX103, the Servidor Itautec LX114 and the Servidor Itautec LX113 are electronically equivalent.



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CPU2006 license: 9001
Test sponsor: Itaotec
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Test date: Jul-2010
Hardware Availability: Dec-2009
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Base Compiler Invocation

C benchmarks:
icc -m64

C++ benchmarks:
icpc -m64

Fortran benchmarks:
ifort -m64

Benchmarks using both Fortran and C:
icc -m64 ifort -m64

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.lelie3d: -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:
-xSSE4.2 -ipo -O3 -no-prec-div -static

C++ benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -static

Fortran benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -static

Benchmarks using both Fortran and C:
-xSSE4.2 -ipo -O3 -no-prec-div -static



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Peak Compiler Invocation

C benchmarks (except as noted below):

icc -m64

482.sphinx3: icc -m32

C++ benchmarks (except as noted below):

icpc -m64

450.soplex: icpc -m32

Fortran benchmarks:

ifort -m64

Benchmarks using both Fortran and C:

icc -m64 ifort -m64

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
437.leslie3d: -DSPEC_CPU_LP64
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
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

433.milc: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-fno-alias -opt-prefetch

470.lbm: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-opt-malloc-options=3 -ansi-alias -auto-ilp32

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Peak Optimization Flags (Continued)

482.sphinx3: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2

C++ benchmarks:

444.namd: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-fno-alias -auto-ilp32

447.dealII: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll2 -ansi-alias -scalar-rep-

450.soplex: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-opt-malloc-options=3

453.povray: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll4 -ansi-alias

Fortran benchmarks:

410.bwaves: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

416.gamess: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll2 -Ob0 -ansi-alias -scalar-rep-

434.zeusmp: basepeak = yes

437.leslie3d: -xSSE4.2 -ipo -O3 -no-prec-div -static

459.GemsFDTD: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll2 -Ob0

465.tonto: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll4 -auto -inline-calloc -opt-malloc-options=3

Benchmarks using both Fortran and C:

435.gromacs: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-opt-prefetch -auto-ilp32

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

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Peak Optimization Flags (Continued)

481.wrf: basepeak = yes

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

<http://www.spec.org/cpu2006/flags/Itautec-Intel-ic11.1-linux64-revE.html>

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

<http://www.spec.org/cpu2006/flags/Itautec-Intel-ic11.1-linux64-revE.xml>

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

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