



SPEC® CFP2006 Result

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Inspur Corporation
TS850

SPECfp®_rate2006 = 938
SPECfp_rate_base2006 = 909

CPU2006 license: 3358

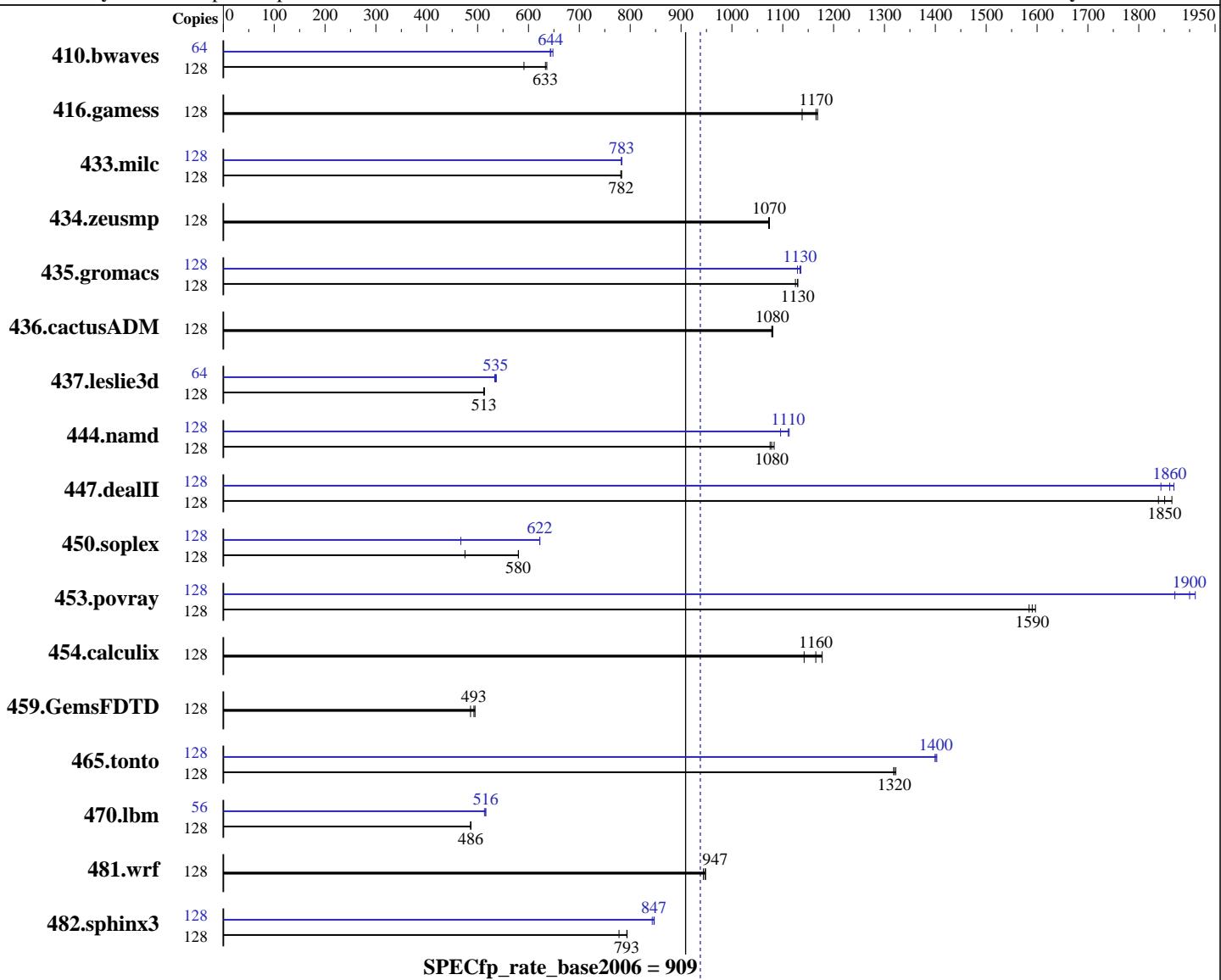
Test sponsor: Inspur Corporation

Tested by: Inspur Corporation

Test date: Sep-2010

Hardware Availability: Apr-2010

Software Availability: Feb-2010



Hardware

CPU Name: Intel Xeon X7560
CPU Characteristics: Intel Turbo Boost Technology up to 2.67 GHz
CPU MHz: 2267
FPU: Integrated
CPU(s) enabled: 64 cores, 8 chips, 8 cores/chip, 2 threads/core
CPU(s) orderable: 4,6,8 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 256 KB I+D on chip per core

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-default
Compiler: Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091130 Package ID: l_cproc_p_11.1.064
Auto Parallel: No
File System: ext3
System State: Run level 3 (multi-user)
Base Pointers: 32-bit

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L3 Cache: 24 MB I+D on chip per chip
Other Cache: None
Memory: 256 GB (64 x 4 GB 4Rx8 PC3-8500R-7,ECC)
Disk Subsystem: 2 x 300 GB (SAS, 10000 RPM, RAID0)
Other Hardware: None

Peak Pointers: 32/64-bit
Other Software: Microquill SmartHeap V8.1
Binutils 2.18.50.0.7.20080502

Results Table

| Benchmark | Base | | | | | | | Peak | | | | | | |
|---------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 410.bwaves | 128 | 2943 | 591 | 2735 | 636 | 2747 | 633 | 64 | 1342 | 648 | 1353 | 643 | 1351 | 644 |
| 416.gamess | 128 | 2202 | 1140 | 2151 | 1170 | 2145 | 1170 | 128 | 2202 | 1140 | 2151 | 1170 | 2145 | 1170 |
| 433.milc | 128 | 1500 | 783 | 1503 | 782 | 1502 | 782 | 128 | 1500 | 783 | 1501 | 783 | 1501 | 783 |
| 434.zeusmp | 128 | 1086 | 1070 | 1085 | 1070 | 1085 | 1070 | 128 | 1086 | 1070 | 1085 | 1070 | 1085 | 1070 |
| 435.gromacs | 128 | 812 | 1120 | 809 | 1130 | 809 | 1130 | 128 | 806 | 1130 | 805 | 1140 | 810 | 1130 |
| 436.cactusADM | 128 | 1416 | 1080 | 1419 | 1080 | 1417 | 1080 | 128 | 1416 | 1080 | 1419 | 1080 | 1417 | 1080 |
| 437.leslie3d | 128 | 2344 | 513 | 2349 | 512 | 2346 | 513 | 64 | 1121 | 537 | 1124 | 535 | 1127 | 534 |
| 444.namd | 128 | 955 | 1080 | 948 | 1080 | 952 | 1080 | 128 | 937 | 1100 | 923 | 1110 | 924 | 1110 |
| 447.dealII | 128 | 796 | 1840 | 791 | 1850 | 785 | 1870 | 128 | 787 | 1860 | 794 | 1840 | 783 | 1870 |
| 450.soplex | 128 | 2247 | 475 | 1840 | 580 | 1840 | 580 | 128 | 2286 | 467 | 1715 | 622 | 1716 | 622 |
| 453.povray | 128 | 430 | 1580 | 426 | 1600 | 428 | 1590 | 128 | 356 | 1910 | 358 | 1900 | 364 | 1870 |
| 454.calculix | 128 | 906 | 1160 | 897 | 1180 | 925 | 1140 | 128 | 906 | 1160 | 897 | 1180 | 925 | 1140 |
| 459.GemsFDTD | 128 | 2756 | 493 | 2744 | 495 | 2794 | 486 | 128 | 2756 | 493 | 2744 | 495 | 2794 | 486 |
| 465.tonto | 128 | 956 | 1320 | 955 | 1320 | 952 | 1320 | 128 | 898 | 1400 | 900 | 1400 | 899 | 1400 |
| 470.lbm | 128 | 3616 | 486 | 3618 | 486 | 3611 | 487 | 56 | 1499 | 513 | 1491 | 516 | 1491 | 516 |
| 481.wrf | 128 | 1515 | 944 | 1510 | 947 | 1508 | 948 | 128 | 1515 | 944 | 1510 | 947 | 1508 | 948 |
| 482.sphinx3 | 128 | 3207 | 778 | 3144 | 793 | 3142 | 794 | 128 | 2958 | 843 | 2944 | 847 | 2947 | 847 |

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

Platform Notes

Turbo Mode enabled

General Notes

'ulimit -s unlimited' was used to set the stack size to unlimited prior to run



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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.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:

-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 -unroll12

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)
-unroll12 -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)
-unroll14 -ansi-alias

Fortran benchmarks:

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

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

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

459.GemsFDTD: basepeak = yes

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)
-unroll14 -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

481.wrf: basepeak = yes



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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100316.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100316.xml>

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