SPEC® CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

$SPECfp^{®}\_rate2006 =$ 193

Servidor Itautec MX203 (Intel Xeon X5560)

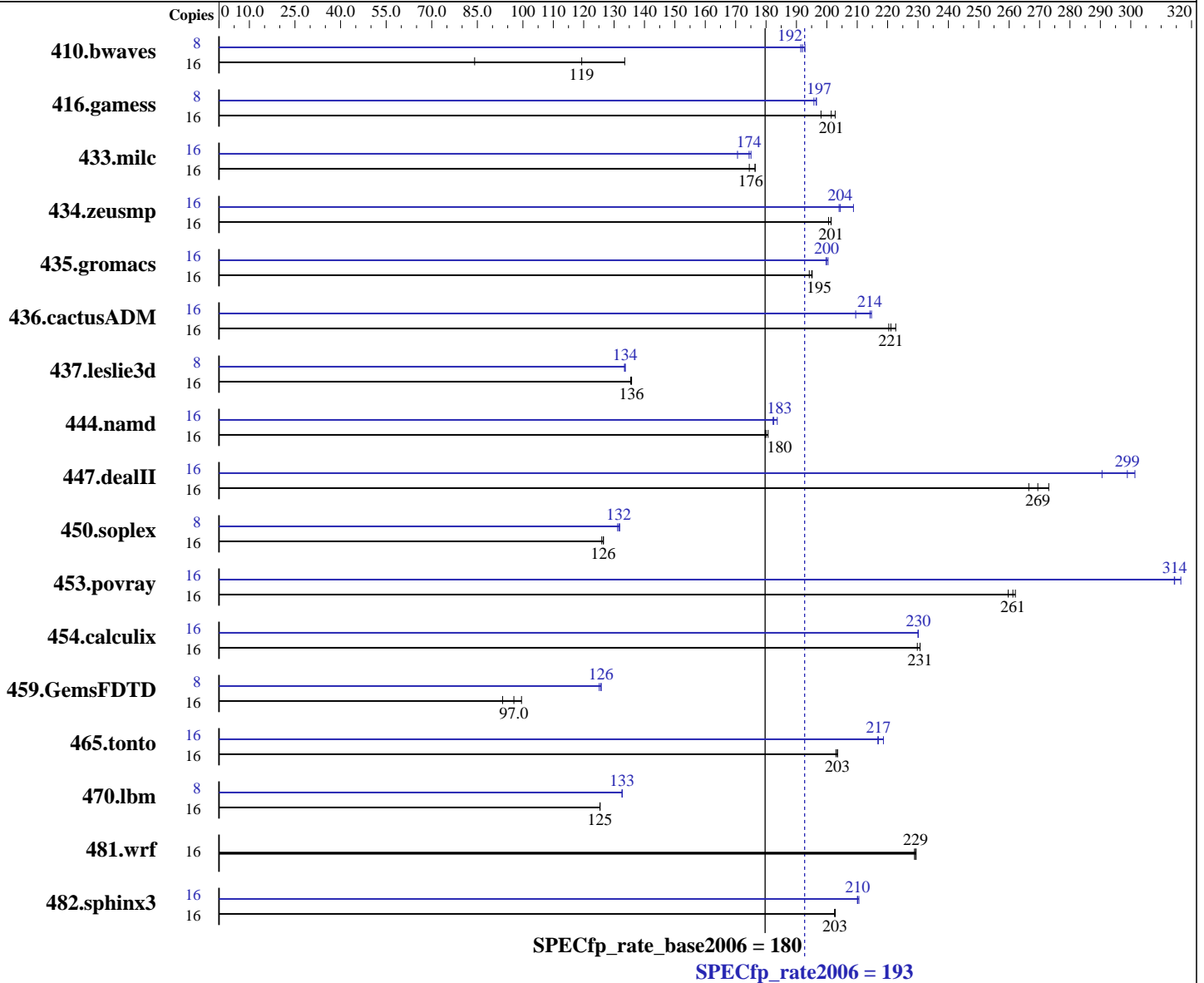$SPECfp\_rate\_base2006 =$ 180

CPU2006 license: 9001
Test sponsor: Itautec
Tested by: Itautec

Test date: Apr-2009
Hardware Availability: Mar-2009
Software Availability: Feb-2009

Copies		
410.bwaves	8	192
	16	119
416.gamess	8	197
	16	201
433.milc	16	174
	16	176
434.zeusmp	16	204
	16	201
435.gromacs	16	200
	16	195
436.cactusADM	16	214
	16	221
437.leslie3d	8	134
	16	136
444.namd	16	183
	16	180
447.dealII	16	299
	16	269
450.soplex	8	132
	16	126
453.povray	16	314
	16	261
454.calculix	16	230
	16	231
459.GemsFDTD	8	126
	16	97.0
465.tonto	16	217
	16	203
470.lbm	8	133
	16	125
481.wrf	16	229
482.sphinx3	16	210
	16	203

SPECfp_rate_base2006 = 180

SPECfp_rate2006 = 193

Hardware

CPU Name: Intel Xeon X5560
CPU Characteristics: Intel Turbo Boost Technology up to 3.20 GHz, 6.4 GT/s QPI
CPU MHz: 2800
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core
CPU(s) orderable: 1, 2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 256 KB I+D on chip per core
Continued on next page

Software

Operating System: SuSe Linux SLES10 SP2, Kernel 2.6.16.60-0.34-smp for x86_64
Compiler: Intel C++ and Fortran Compiler 11.0 for Linux Build 20090131 Package ID: l_cproc_p_11.0.081, l_cprof_p_11.0.081
Auto Parallel: No
File System: ReiserFS
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Continued on next page

SPEC CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

Servidor Itautec MX203 (Intel Xeon X5560)

SPECfp_rate2006 =	193
SPECfp_rate_base2006 =	180

L3 Cache:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	24 GB (6 x 4GB DDR3-1333, CL 9, ECC)
Disk Subsystem:	1 x 160 GB SATA-2, 7200RPM
Other Hardware:	None
Peak Pointers:	32/64-bit
Other Software:	Binutils 2.18.50.0.7.20080502

Results Table

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	16	2585	84.1	**1822**	**119**	1629	133	8	564	193	**566**	**192**	568	191
416.gamess	16	**1555**	**201**	1582	198	1545	203	8	**797**	**197**	800	196	797	197
433.milc	16	842	174	**833**	**176**	833	176	16	861	171	839	175	**842**	**174**
434.zeusmp	16	723	201	**723**	**201**	726	201	16	714	204	**712**	**204**	697	209
435.gromacs	16	585	195	588	194	**586**	**195**	16	572	200	570	200	**571**	**200**
436.cactusADM	16	859	223	868	220	**865**	**221**	16	913	210	**893**	**214**	891	215
437.leslie3d	16	1108	136	1110	135	**1108**	**136**	8	563	134	564	133	**563**	**134**
444.namd	16	**713**	**180**	710	181	714	180	16	704	182	**703**	**183**	699	184
447.dealII	16	670	273	687	266	**679**	**269**	16	607	301	630	291	**612**	**299**
450.soplex	16	**1055**	**126**	1060	126	1055	127	8	506	132	**507**	**132**	509	131
453.povray	16	328	260	325	262	**326**	**261**	16	269	316	271	314	**271**	**314**
454.calculix	16	574	230	572	231	**572**	**231**	16	**574**	**230**	574	230	574	230
459.GemsFDTD	16	**1749**	**97.0**	1705	99.5	1819	93.3	8	**675**	**126**	678	125	675	126
465.tonto	16	**774**	**203**	776	203	774	204	16	720	219	726	217	**726**	**217**
470.lbm	16	**1753**	**125**	1753	125	1754	125	8	829	133	**829**	**133**	829	133
481.wrf	16	781	229	**780**	**229**	779	229	16	781	229	**780**	**229**	779	229
482.sphinx3	16	1538	203	**1538**	**203**	1540	203	16	1481	211	1484	210	**1484**	**210**

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

General Notes

This result was measured on the Servidor Itautec MX223.
 The Servidor Itautec MX203 and the Servidor Itautec MX223 are electronically equivalent.

Base Compiler Invocation

C benchmarks:
    icc

Continued on next page

SPEC CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

Servidor Itautec MX203 (Intel Xeon X5560)

SPECfp_rate2006 = 193

SPECfp_rate_base2006 = 180

CPU2006 license: 9001
Test sponsor: Itautec
Tested by: Itautec

Test date: Apr-2009
Hardware Availability: Mar-2009
Software Availability: Feb-2009

Base Compiler Invocation (Continued)

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:
```
-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
```

SPEC CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

Servidor Itautec MX203 (Intel Xeon X5560)

SPECfp_rate2006 =   193

SPECfp_rate_base2006 = 180

CPU2006 license: 9001
Test sponsor: Itautec
Tested by: Itautec

Test date: Apr-2009
Hardware Availability: Mar-2009
Software Availability: Feb-2009

Peak Compiler Invocation

C benchmarks (except as noted below):
      `icc`

      482.sphinx3: `icc -m32`

C++ benchmarks (except as noted below):
      `icpc`

       450.soplex: `icpc -m32`

Fortran benchmarks (except as noted below):
      `ifort`

      437.leslie3d: `ifort -m32`

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`
            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`

        470.lbm: `-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch`
                `-auto-ilp32`

Continued on next page

Itautec

Servidor Itautec MX203 (Intel Xeon X5560)

SPECfp_rate2006 =   193

SPECfp_rate_base2006 =   180

CPU2006 license: 9001
Test sponsor: Itautec
Tested by: Itautec

Test date: Apr-2009
Hardware Availability: Mar-2009
Software Availability: Feb-2009

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: -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)

     437.leslie3d: -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 -opt-prefetch

   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 -opt-prefetch

      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

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

Itautec

Servidor Itautec MX203 (Intel Xeon X5560)

$SPECfp_rate2006 = $ 193

$SPECfp_rate_base2006 = $ 180

Peak Optimization Flags (Continued)

```
436.cactusADM: -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 -opt-prefetch -auto-ilp32

   454.calculix: -xSSE4.2 -ipo -O3 -no-prec-div -static -auto-ilp32

      481.wrf: basepeak = yes
```

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090710.04.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090710.04.xml

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

Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 01:57:21 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 28 April 2009.