SPEC® CFP2006 Result

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Itautec

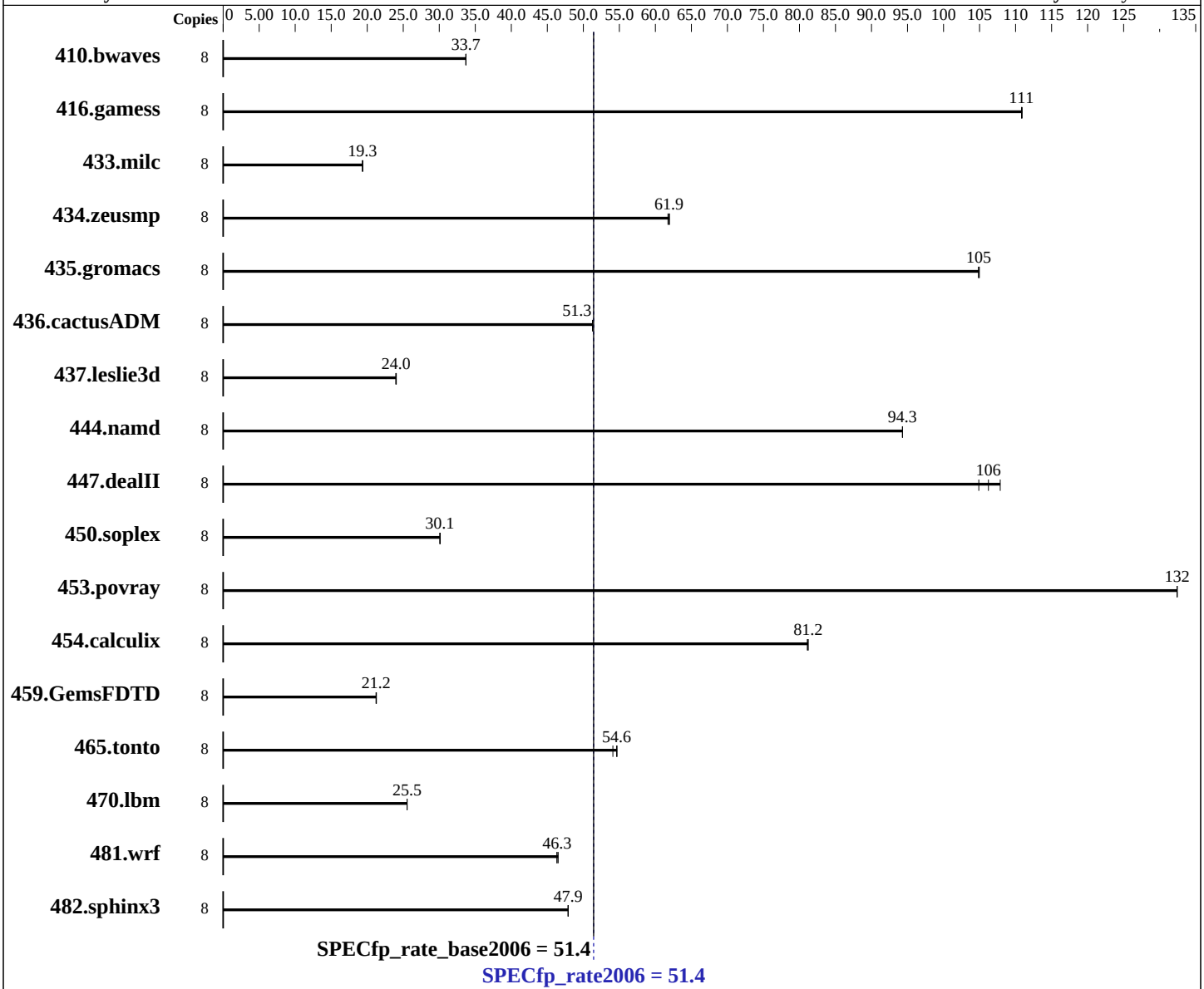
Servidor Itautec MX221 (Intel Xeon E5345)

SPECfp®_rate2006 = 51.4

SPECfp_rate_base2006 = 51.4

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

Test date: Feb-2007
Hardware Availability: Feb-2007
Software Availability: May-2006



Hardware

CPU Name:	Intel Xeon E5345
CPU Characteristics:	1333MHz system bus
CPU MHz:	2330
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1-2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

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Software

Operating System:	Windows Server 2003 Enterprise Edition + SP1 (32-bit)
Compiler:	Intel C++ Compiler for IA32 version 9.1 Package ID W_CC_C_9.1.025 Build no 20060519Z Intel Fortran Compiler for IA32 version 9.1 Package ID W_FC_C_9.1.025 Build no 20060519Z Microsoft Visual Studio .NET 2003 7.1.3088 (for libraries)
Auto Parallel:	No
File System:	NTFS

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2GB DDR2-RAM PC2-5300F CAS 5-5-5)
Disk Subsystem: 73 GB SCSI, 10000RPM
Other Hardware: None

System State: Default
Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: Microquill SmartHeap Library v.8.0 for SMP

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	**3226**	**33.7**	3227	33.7	3226	33.7	8	**3226**	**33.7**	3227	33.7	3226	33.7
416.gamess	8	1413	111	1412	111	**1413**	**111**	8	1413	111	1412	111	**1413**	**111**
433.milc	8	3790	19.4	3800	19.3	**3795**	**19.3**	8	3790	19.4	3800	19.3	**3795**	**19.3**
434.zeusmp	8	1175	62.0	**1176**	**61.9**	1179	61.7	8	1175	62.0	**1176**	**61.9**	1179	61.7
435.gromacs	8	**545**	**105**	544	105	545	105	8	**545**	**105**	544	105	545	105
436.cactusADM	8	1864	51.3	**1864**	**51.3**	1864	51.3	8	1864	51.3	**1864**	**51.3**	1864	51.3
437.leslie3d	8	3138	24.0	**3133**	**24.0**	3128	24.0	8	3138	24.0	**3133**	**24.0**	3128	24.0
444.namd	8	**680**	**94.3**	680	94.3	680	94.3	8	**680**	**94.3**	680	94.3	680	94.3
447.dealII	8	**862**	**106**	848	108	873	105	8	**862**	**106**	848	108	873	105
450.soplex	8	**2217**	**30.1**	2214	30.1	2218	30.1	8	**2217**	**30.1**	2214	30.1	2218	30.1
453.povray	8	321	132	**321**	**132**	321	132	8	321	132	**321**	**132**	321	132
454.calculix	8	813	81.2	**813**	**81.2**	814	81.1	8	813	81.2	**813**	**81.2**	814	81.1
459.GemsFDTD	8	3989	21.3	4000	21.2	**3995**	**21.2**	8	3989	21.3	4000	21.2	**3995**	**21.2**
465.tonto	8	1440	54.7	**1441**	**54.6**	1455	54.1	8	1440	54.7	**1441**	**54.6**	1455	54.1
470.lbm	8	4305	25.5	**4305**	**25.5**	4306	25.5	8	4305	25.5	**4305**	**25.5**	4306	25.5
481.wrf	8	**1928**	**46.3**	1928	46.3	1921	46.5	8	**1928**	**46.3**	1928	46.3	1921	46.5
482.sphinx3	8	3256	47.9	3255	47.9	**3256**	**47.9**	8	3256	47.9	3255	47.9	**3256**	**47.9**

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

General Notes

```
The Servidor Itautec MX221 and the Servidor Itautec MX201
are electronically equivalent.
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

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Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qvc7.1 -Qc99 ifort

Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG -DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:
-fast /F950000000 shlSMPMt.lib -link /FORCE:MULTIPLE

C++ benchmarks:
-fast -Qcxx_features /F950000000 shlSMPMt.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
-fast /F950000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
-fast /F950000000 -link /FORCE:MULTIPLE

Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes

470.lbm: basepeak = yes

482.sphinx3: basepeak = yes

C++ benchmarks:

Continued on next page

Peak Optimization Flags (Continued)

444.namd: basepeak = yes

447.dealII: basepeak = yes

450.soplex: basepeak = yes

453.povray: basepeak = yes

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

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-ic91-flags.20090714.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Itautec-ic91-flags.20090714.xml

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