SPEC® CFP2006 Result
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Itautec

Servidor Itautec MX221 (Intel Xeon E5310)

$SPECfp®\_rate2006 =$ 37.8

$SPECfp\_rate\_base2006 =$ 37.8
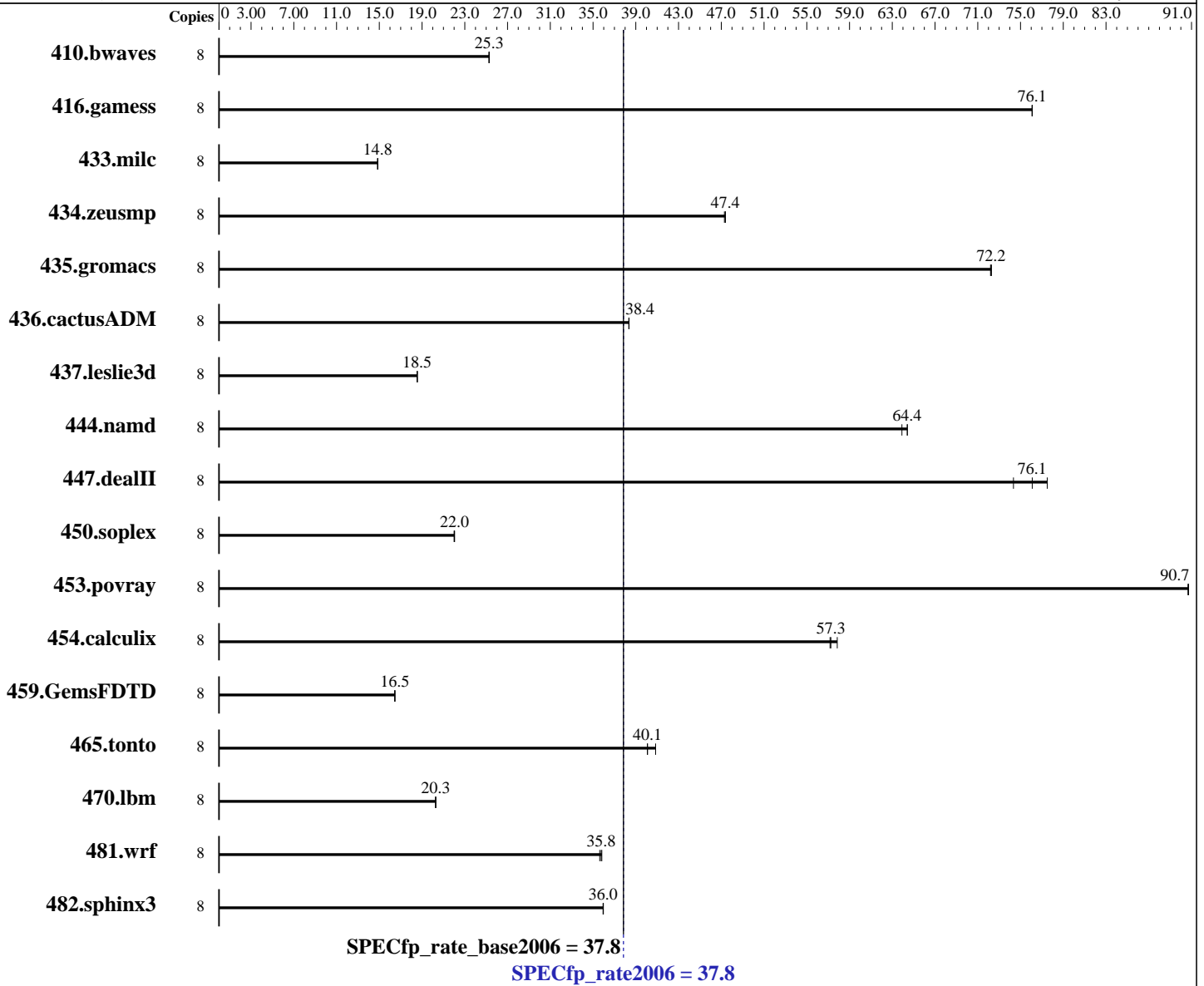
CPU2006 license: 9001
Test sponsor: Itautec
Tested by: Itautec

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

Copies	Benchmark	Result
8	410.bwaves	25.3
8	416.gamess	76.1
8	433.milc	14.8
8	434.zeusmp	47.4
8	435.gromacs	72.2
8	436.cactusADM	38.4
8	437.leslie3d	18.5
8	444.namd	64.4
8	447.dealII	76.1
8	450.soplex	22.0
8	453.povray	90.7
8	454.calculix	57.3
8	459.GemsFDTD	16.5
8	465.tonto	40.1
8	470.lbm	20.3
8	481.wrf	35.8
8	482.sphinx3	36.0

SPECfp_rate_base2006 = 37.8
SPECfp_rate2006 = 37.8

Hardware

CPU Name: Intel Xeon E5310
CPU Characteristics: 1066MHz system bus
CPU MHz: 1600
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

Continued on next page

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	System State:	Default
Other Cache:	None	Base Pointers:	32-bit
Memory:	8 GB (8x1GB DDR2-RAM PC2-5300F CAS 5-5-5)	Peak Pointers:	32-bit
Disk Subsystem:	73 GB SCSI, 10000RPM	Other Software:	Microquill SmartHeap Library v.8.0 for SMP
Other Hardware:	None		

Results Table

Benchmark	Copies	Base Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Peak Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	**4301**	**25.3**	4299	25.3	4304	25.3	8	**4301**	**25.3**	4299	25.3	4304	25.3
416.gamess	8	2059	76.1	2058	76.1	**2059**	**76.1**	8	2059	76.1	2058	76.1	**2059**	**76.1**
433.milc	8	4948	14.8	4942	14.9	**4947**	**14.8**	8	4948	14.8	4942	14.9	**4947**	**14.8**
434.zeusmp	8	1536	47.4	**1537**	**47.4**	1539	47.3	8	1536	47.4	**1537**	**47.4**	1539	47.3
435.gromacs	8	**791**	**72.2**	790	72.3	791	72.2	8	**791**	**72.2**	790	72.3	791	72.2
436.cactusADM	8	2492	38.4	2493	38.3	**2492**	**38.4**	8	2492	38.4	2493	38.3	**2492**	**38.4**
437.leslie3d	8	4057	18.5	4050	18.6	**4055**	**18.5**	8	4057	18.5	4050	18.6	**4055**	**18.5**
444.namd	8	1004	63.9	**996**	**64.4**	996	64.4	8	1004	63.9	**996**	**64.4**	996	64.4
447.dealII	8	1181	77.5	**1203**	**76.1**	1231	74.3	8	1181	77.5	**1203**	**76.1**	1231	74.3
450.soplex	8	3027	22.0	3033	22.0	**3028**	**22.0**	8	3027	22.0	3033	22.0	**3028**	**22.0**
453.povray	8	**469**	**90.7**	469	90.7	469	90.7	8	**469**	**90.7**	469	90.7	469	90.7
454.calculix	8	1141	57.9	1154	57.2	**1153**	**57.3**	8	1141	57.9	1154	57.2	**1153**	**57.3**
459.GemsFDTD	8	5162	16.4	**5159**	**16.5**	5155	16.5	8	5162	16.4	**5159**	**16.5**	5155	16.5
465.tonto	8	1964	40.1	1927	40.9	**1964**	**40.1**	8	1964	40.1	1927	40.9	**1964**	**40.1**
470.lbm	8	5425	20.3	**5422**	**20.3**	5419	20.3	8	5425	20.3	**5422**	**20.3**	5419	20.3
481.wrf	8	**2499**	**35.8**	2495	35.8	2508	35.6	8	**2499**	**35.8**	2495	35.8	2508	35.6
482.sphinx3	8	4335	36.0	4339	35.9	**4337**	**36.0**	8	4335	36.0	4339	35.9	**4337**	**36.0**

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:

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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

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

Tested with SPEC CPU2006 v1.0.
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