



# SPEC<sup>®</sup> CFP2006 Result

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Itautec

SPECfp<sup>®</sup>\_rate2006 = 51.4

Servidor Itautec MX201 (Intel Xeon E5345)

SPECfp\_rate\_base2006 = 51.4

CPU2006 license: 9001

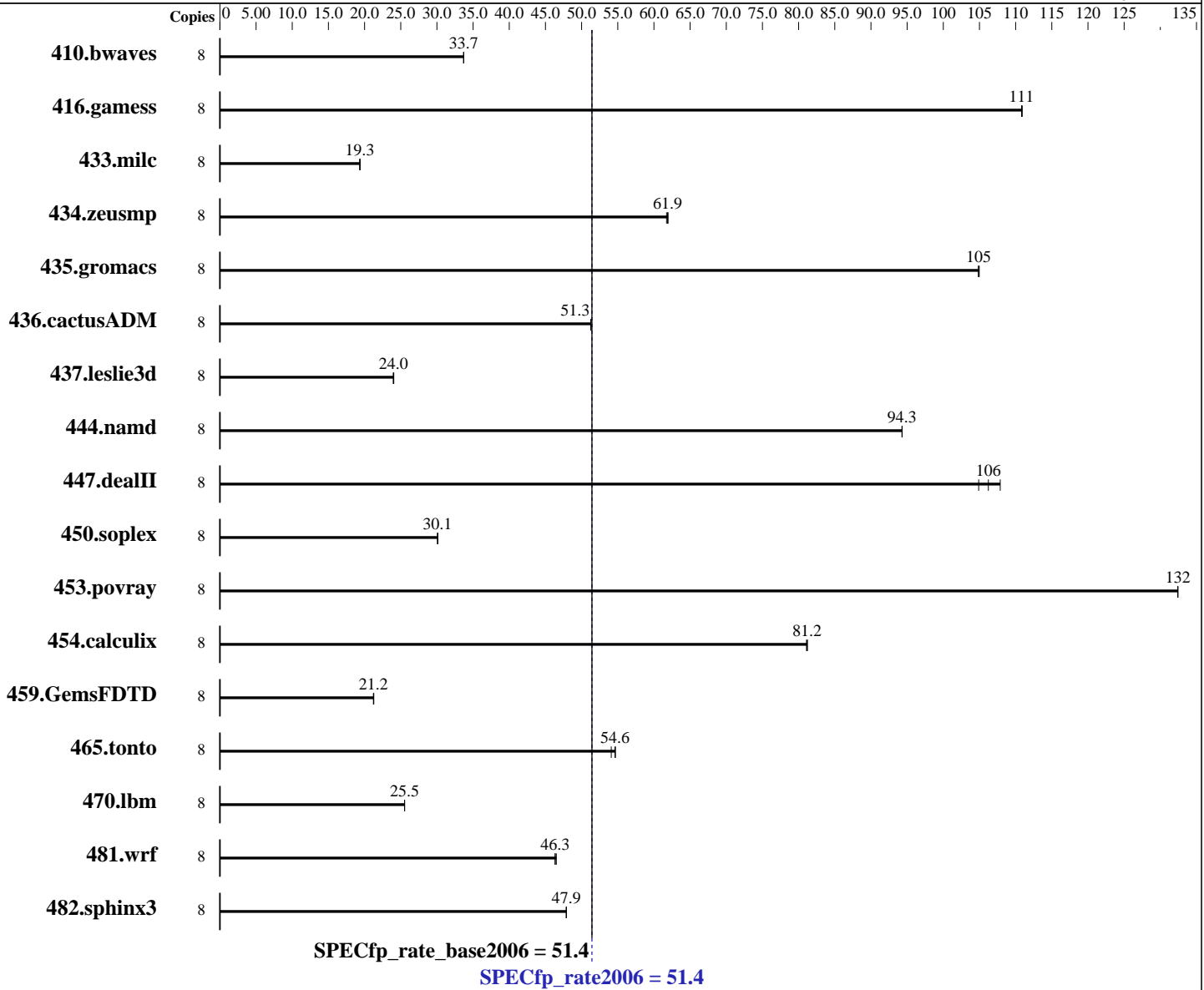
Test date: Feb-2007

Test sponsor: Itautec

Hardware Availability: Feb-2007

Tested by: Itautec

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

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

## General Notes

This result was measured on the Servidor Itaotec MX221.  
The Servidor Itaotec MX221 and the Servidor Itaotec MX201  
are electronically equivalent.

## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99

C++ benchmarks:  
icl -Qvc7.1

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Software Availability: May-2006

## 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>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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