



# SPEC<sup>®</sup> CFP2006 Result

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Itaotec

SPECfp<sup>®</sup>\_rate2006 = 50.7

Servidor Itaotec LX201 (Intel Xeon X5355)

SPECfp\_rate\_base2006 = 50.7

CPU2006 license: 9001

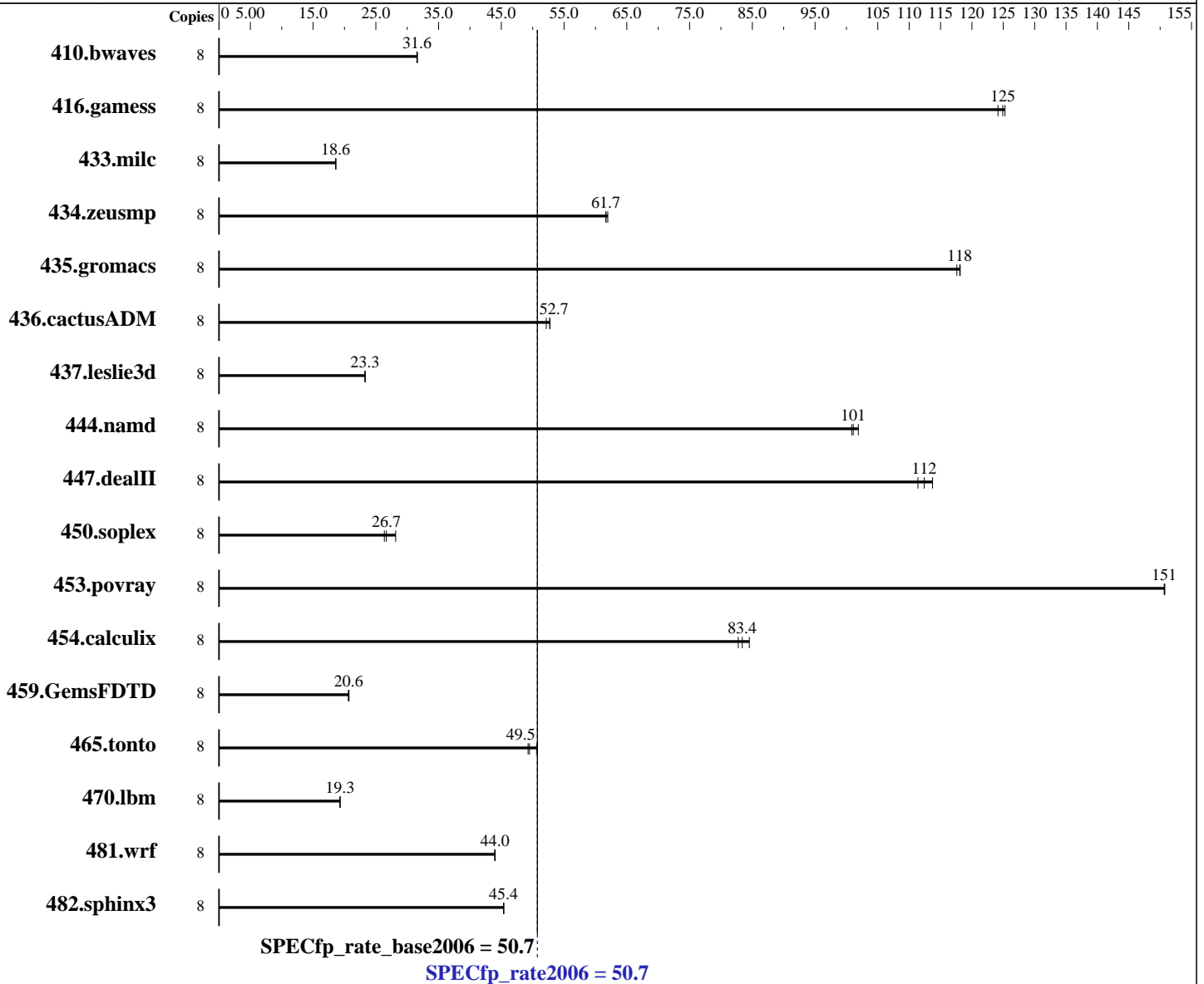
Test sponsor: Itaotec

Tested by: Itaotec

Test date: Feb-2007

Hardware Availability: Feb-2007

Software Availability: May-2006



### Hardware

CPU Name: Intel Xeon X5355  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2660  
 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

Continued on next page



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L3 Cache: None  
Other Cache: None  
Memory: 8 GB (8x1GB DDR2-RAM PC2-5300F CAS 5-5-5)  
Disk Subsystem: 120 GB SATA, 7200RPM  
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	3447	31.5	3437	31.6	<b>3443</b>	<b>31.6</b>	8	3447	31.5	3437	31.6	<b>3443</b>	<b>31.6</b>
416.gamess	8	<b>1254</b>	<b>125</b>	1262	124	1250	125	8	<b>1254</b>	<b>125</b>	1262	124	1250	125
433.milc	8	3948	18.6	3944	18.6	<b>3947</b>	<b>18.6</b>	8	3948	18.6	3944	18.6	<b>3947</b>	<b>18.6</b>
434.zeusmp	8	1181	61.7	<b>1180</b>	<b>61.7</b>	1175	62.0	8	1181	61.7	<b>1180</b>	<b>61.7</b>	1175	62.0
435.gromacs	8	486	118	484	118	<b>484</b>	<b>118</b>	8	486	118	484	118	<b>484</b>	<b>118</b>
436.cactusADM	8	<b>1814</b>	<b>52.7</b>	1813	52.7	1833	52.2	8	<b>1814</b>	<b>52.7</b>	1813	52.7	1833	52.2
437.leslie3d	8	3231	23.3	<b>3231</b>	<b>23.3</b>	3227	23.3	8	3231	23.3	<b>3231</b>	<b>23.3</b>	3227	23.3
444.namd	8	630	102	636	101	<b>635</b>	<b>101</b>	8	630	102	636	101	<b>635</b>	<b>101</b>
447.dealII	8	805	114	<b>814</b>	<b>112</b>	822	111	8	805	114	<b>814</b>	<b>112</b>	822	111
450.soplex	8	2532	26.4	<b>2502</b>	<b>26.7</b>	2369	28.2	8	2532	26.4	<b>2502</b>	<b>26.7</b>	2369	28.2
453.povray	8	282	151	<b>282</b>	<b>151</b>	283	151	8	282	151	<b>282</b>	<b>151</b>	283	151
454.calculix	8	<b>791</b>	<b>83.4</b>	798	82.8	781	84.5	8	<b>791</b>	<b>83.4</b>	798	82.8	781	84.5
459.GemsFDTD	8	<b>4111</b>	<b>20.6</b>	4114	20.6	4096	20.7	8	<b>4111</b>	<b>20.6</b>	4114	20.6	4096	20.7
465.tonto	8	1555	50.6	<b>1591</b>	<b>49.5</b>	1598	49.3	8	1555	50.6	<b>1591</b>	<b>49.5</b>	1598	49.3
470.lbm	8	<b>5699</b>	<b>19.3</b>	5696	19.3	5700	19.3	8	<b>5699</b>	<b>19.3</b>	5696	19.3	5700	19.3
481.wrf	8	2030	44.0	<b>2031</b>	<b>44.0</b>	2034	43.9	8	2030	44.0	<b>2031</b>	<b>44.0</b>	2034	43.9
482.sphinx3	8	<b>3436</b>	<b>45.4</b>	3437	45.4	3435	45.4	8	<b>3436</b>	<b>45.4</b>	3437	45.4	3435	45.4

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

## Base Compiler Invocation

C benchmarks:

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

C++ benchmarks:

```
icl -Qvc7.1
```

Fortran benchmarks:

```
ifort
```

Benchmarks using both Fortran and C:

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



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

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

## 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:  
444.namd: basepeak = yes  
447.dealII: basepeak = yes  
450.soplex: basepeak = yes  
453.povray: basepeak = yes

Fortran benchmarks:

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Test sponsor: Itaotec

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Tested by: Itaotec

Software Availability: May-2006

## Peak Optimization Flags (Continued)

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/Itaotec-ic91-flags.20090714.html>

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

<http://www.spec.org/cpu2006/flags/Itaotec-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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