



# SPEC® CFP2006 Result

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## Bull SAS

SPECfp®2006 = **11.0**

NovaScale B260 (Intel Xeon processor 5130,2.0GHz)

SPECfp\_base2006 = **10.8**

CPU2006 license: 20

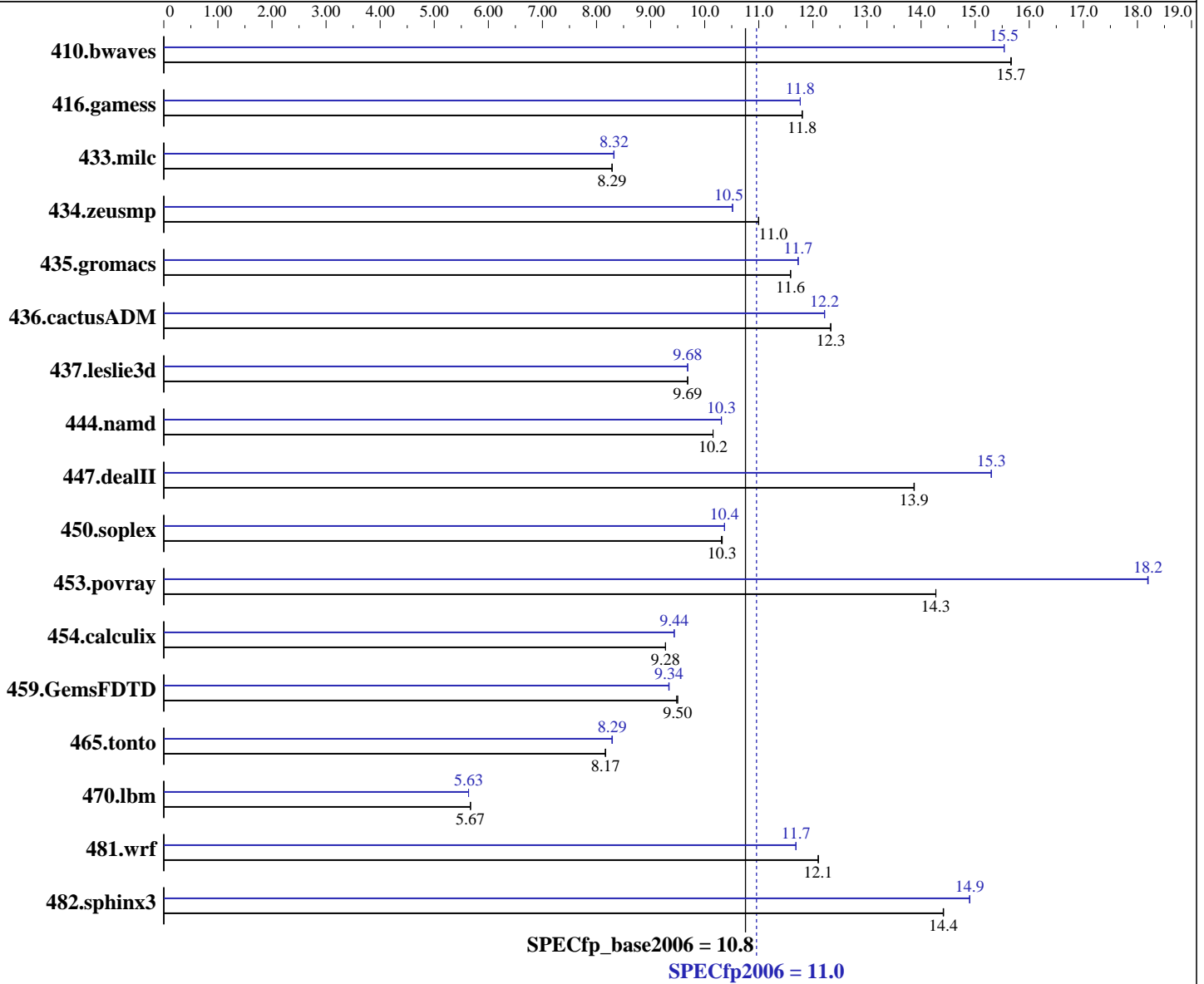
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Dec-2006

Hardware Availability: Dec-2006

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon 5130  
 CPU Characteristics: 2.0 GHz, 4MB L2, 1333MHz bus  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 to 2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip

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### Software

Operating System: Windows Server 2003 Enterprise Edition (32 bits) Service Pack1  
 Compiler: Intel C++ Compiler for IA32 version 9.1  
 Package ID W\_CC\_C\_9.1.033 Build no 20061103Z  
 Intel Fortran Compiler for IA32 version 9.1  
 Package ID W\_FC\_C\_9.1.033 Build no 20061103Z  
 Microsoft Visual Studio .NET 2003 (lib & linker)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default

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L3 Cache: None  
Other Cache: None  
Memory: 8 GB (2GB DIMMx4, FB-DIMM PC2-5300F ECC CL5)  
Disk Subsystem: 73 GB SAS, 10000RPM  
Other Hardware: None

Base Pointers: 32-bit  
Peak Pointers: 32-bit  
Other Software: MicroQuill SmartHeap Library 8.0 (shIW32M.lib)

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	867	15.7	<b>868</b>	<b>15.7</b>	868	15.7	875	15.5	875	15.5	<b>875</b>	<b>15.5</b>
416.gamess	1659	11.8	1659	11.8	<b>1659</b>	<b>11.8</b>	1664	11.8	<b>1664</b>	<b>11.8</b>	1664	11.8
433.milc	1108	8.28	<b>1108</b>	<b>8.29</b>	1107	8.29	1104	8.32	1103	8.33	<b>1103</b>	<b>8.32</b>
434.zeusmp	<b>827</b>	<b>11.0</b>	827	11.0	828	11.0	865	10.5	<b>865</b>	<b>10.5</b>	866	10.5
435.gromacs	616	11.6	<b>616</b>	<b>11.6</b>	616	11.6	<b>609</b>	<b>11.7</b>	609	11.7	609	11.7
436.cactusADM	<b>969</b>	<b>12.3</b>	969	12.3	969	12.3	978	12.2	978	12.2	<b>978</b>	<b>12.2</b>
437.leslie3d	971	9.69	<b>971</b>	<b>9.69</b>	971	9.68	971	9.68	<b>971</b>	<b>9.68</b>	971	9.68
444.namd	790	10.2	<b>790</b>	<b>10.2</b>	790	10.2	778	10.3	778	10.3	<b>778</b>	<b>10.3</b>
447.dealII	825	13.9	<b>825</b>	<b>13.9</b>	824	13.9	748	15.3	748	15.3	<b>748</b>	<b>15.3</b>
450.soplex	808	10.3	809	10.3	<b>808</b>	<b>10.3</b>	804	10.4	<b>804</b>	<b>10.4</b>	805	10.4
453.povray	373	14.3	373	14.3	<b>373</b>	<b>14.3</b>	292	18.2	<b>292</b>	<b>18.2</b>	292	18.2
454.calculix	889	9.28	890	9.27	<b>889</b>	<b>9.28</b>	874	9.44	<b>874</b>	<b>9.44</b>	874	9.44
459.GemsFDTD	1119	9.48	<b>1117</b>	<b>9.50</b>	1117	9.50	1137	9.34	1136	9.34	<b>1136</b>	<b>9.34</b>
465.tonto	<b>1205</b>	<b>8.17</b>	1206	8.16	1205	8.17	1186	8.29	<b>1187</b>	<b>8.29</b>	1188	8.29
470.lbm	2423	5.67	2424	5.67	<b>2424</b>	<b>5.67</b>	<b>2439</b>	<b>5.63</b>	2439	5.63	2439	5.63
481.wrf	923	12.1	923	12.1	<b>923</b>	<b>12.1</b>	<b>956</b>	<b>11.7</b>	956	11.7	956	11.7
482.sphinx3	1352	14.4	1353	14.4	<b>1352</b>	<b>14.4</b>	<b>1308</b>	<b>14.9</b>	1308	14.9	1308	14.9

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

## General Notes

Other Configuration Notes

/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment

## 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 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:  
-fast -Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

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

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

## Peak 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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## Peak 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

```

## Peak Optimization Flags

C benchmarks:

```

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

```

C++ benchmarks:

```

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

```

Fortran benchmarks:

```

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000
-link /FORCE:MULTIPLE

```

Benchmarks using both Fortran and C:

```

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000
-link /FORCE:MULTIPLE

```

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/flags.20090714.00.html>

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

<http://www.spec.org/cpu2006/flags/flags.20090714.00.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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