



# SPEC<sup>®</sup> CFP2006 Result

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## Bull SAS

SPECfp<sup>®</sup>2006 = 13.4

NovaScale B280 (Intel Xeon processor 5150,2.66GHz)

SPECfp\_base2006 = 13.1

CPU2006 license: 20

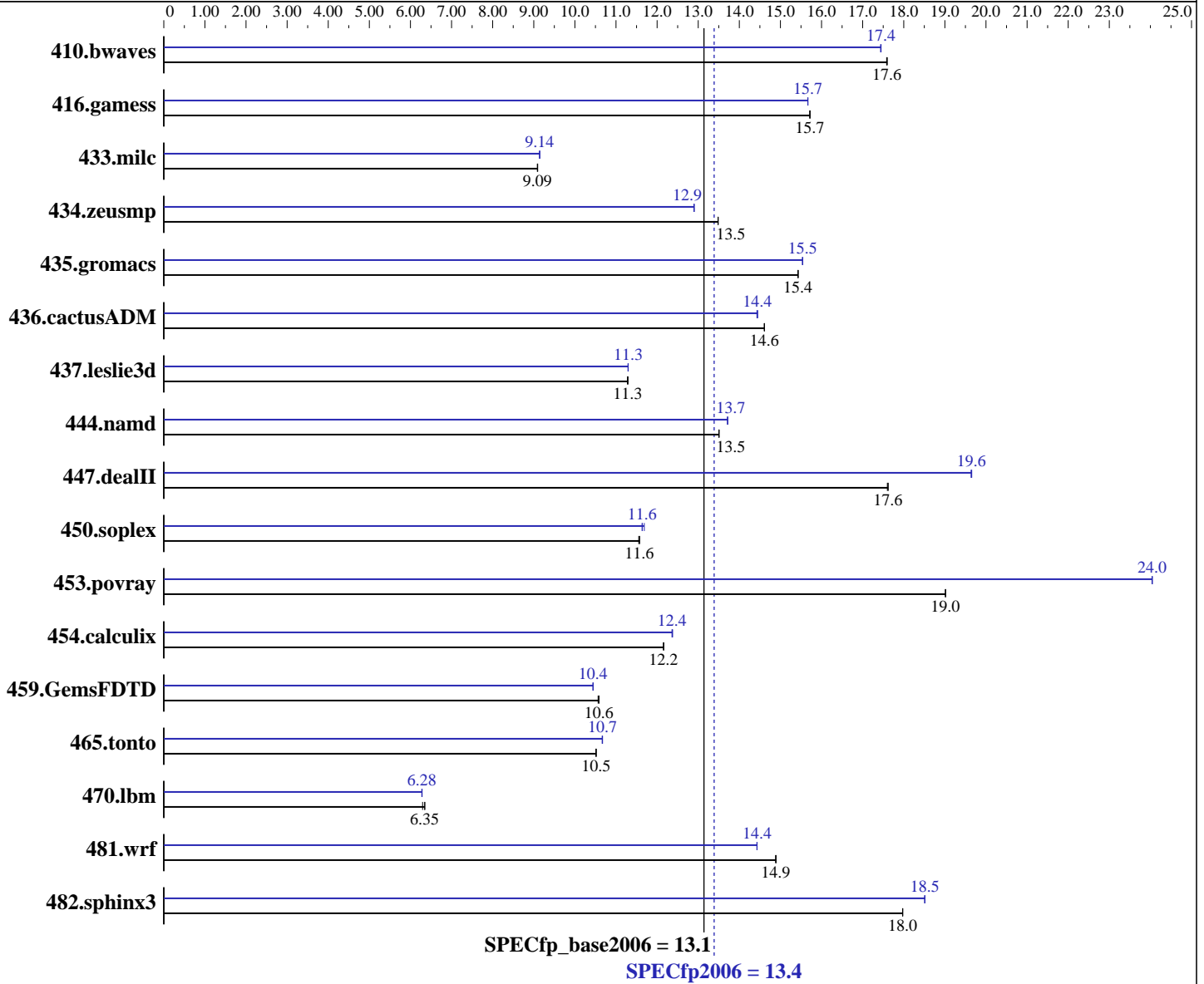
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Dec-2006

Hardware Availability: Jan-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon 5150  
 CPU Characteristics: 2.66 GHz, 4MB L2, 1333MHz bus  
 CPU MHz: 2660  
 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 (1GB DIMMx8, 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	<u>773</u>	<u>17.6</u>	773	17.6	772	17.6	<u>779</u>	<u>17.4</u>	779	17.4	779	17.4
416.gamess	1246	15.7	<u>1246</u>	<u>15.7</u>	1246	15.7	1250	15.7	1250	15.7	<u>1250</u>	<u>15.7</u>
433.milc	1009	9.10	<u>1010</u>	<u>9.09</u>	1010	9.09	1004	9.14	1004	9.14	<u>1004</u>	<u>9.14</u>
434.zeusmp	<u>675</u>	<u>13.5</u>	675	13.5	675	13.5	<u>706</u>	<u>12.9</u>	706	12.9	705	12.9
435.gromacs	463	15.4	463	15.4	<u>463</u>	<u>15.4</u>	460	15.5	459	15.5	<u>459</u>	<u>15.5</u>
436.cactusADM	<u>818</u>	<u>14.6</u>	818	14.6	818	14.6	<u>827</u>	<u>14.4</u>	828	14.4	827	14.4
437.leslie3d	832	11.3	<u>833</u>	<u>11.3</u>	833	11.3	832	11.3	833	11.3	<u>832</u>	<u>11.3</u>
444.namd	<u>594</u>	<u>13.5</u>	594	13.5	594	13.5	585	13.7	585	13.7	<u>585</u>	<u>13.7</u>
447.dealII	<u>649</u>	<u>17.6</u>	650	17.6	649	17.6	<u>582</u>	<u>19.6</u>	582	19.7	583	19.6
450.soplex	721	11.6	<u>721</u>	<u>11.6</u>	722	11.6	<u>717</u>	<u>11.6</u>	717	11.6	714	11.7
453.povray	280	19.0	280	19.0	<u>280</u>	<u>19.0</u>	221	24.0	221	24.0	<u>221</u>	<u>24.0</u>
454.calculix	679	12.2	<u>679</u>	<u>12.2</u>	678	12.2	<u>667</u>	<u>12.4</u>	667	12.4	667	12.4
459.GemsFDTD	1004	10.6	1002	10.6	<u>1003</u>	<u>10.6</u>	<u>1016</u>	<u>10.4</u>	1016	10.4	1016	10.4
465.tonto	<u>936</u>	<u>10.5</u>	936	10.5	935	10.5	922	10.7	923	10.7	<u>922</u>	<u>10.7</u>
470.lbm	2182	6.30	2164	6.35	<u>2165</u>	<u>6.35</u>	<u>2188</u>	<u>6.28</u>	2189	6.28	2186	6.28
481.wrf	750	14.9	<u>750</u>	<u>14.9</u>	750	14.9	774	14.4	774	14.4	<u>774</u>	<u>14.4</u>
482.sphinx3	<u>1084</u>	<u>18.0</u>	1084	18.0	1085	18.0	<u>1053</u>	<u>18.5</u>	1053	18.5	1053	18.5

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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## 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

```

## Peak Portability Flags

```

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
           -DBOOST_NO_INTRINSIC_WCHAR_T

```

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## Peak Portability Flags (Continued)

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.20090715.html>

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

<http://www.spec.org/cpu2006/flags/flags.20090715.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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