



# SPEC® CFP2006 Result

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## Bull SAS

SPECfp®2006 = **8.87**

NovaScale B260 (Intel Xeon processor 5110,1.60GHz)

SPECfp\_base2006 = **8.71**

CPU2006 license: 20

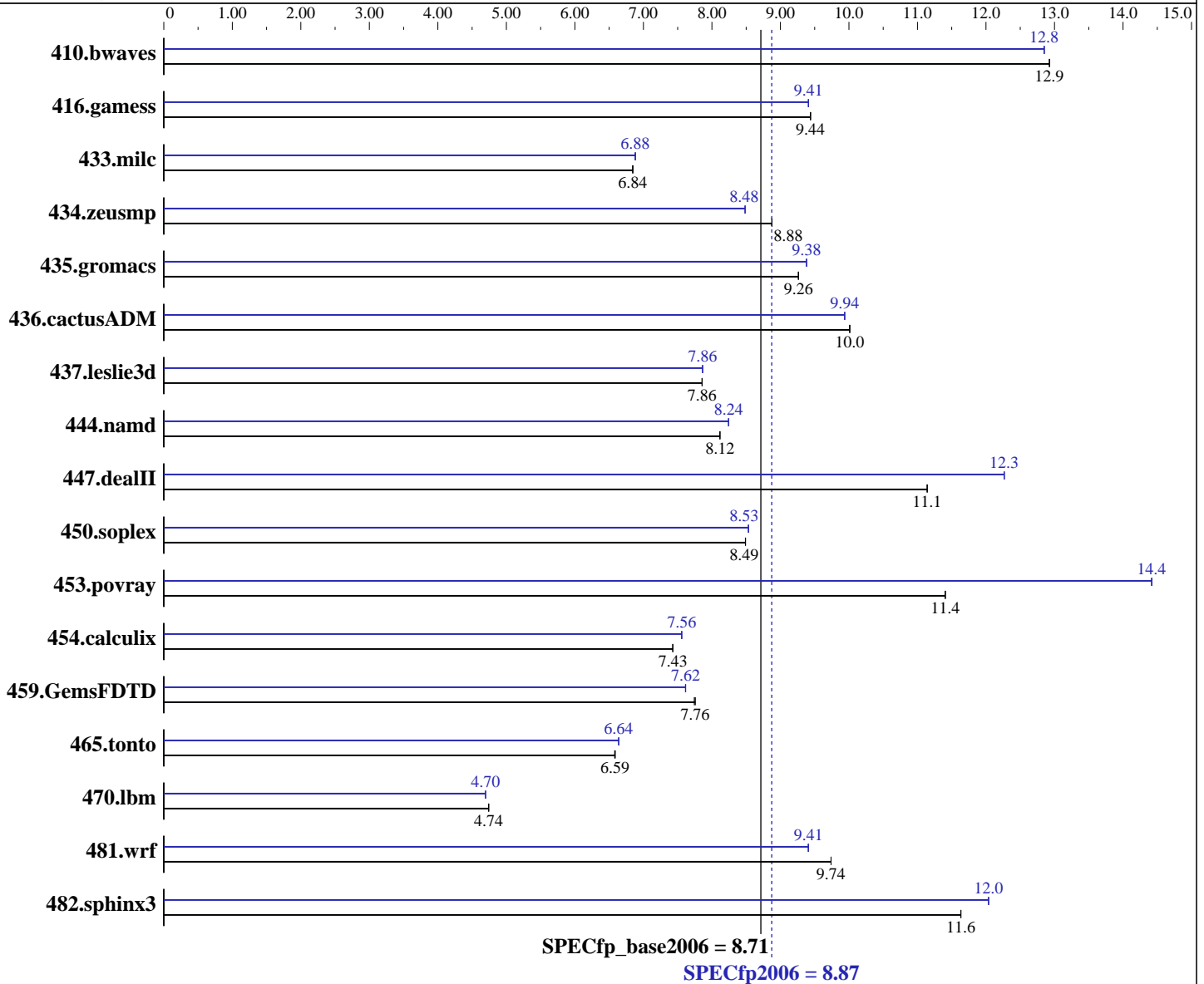
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Dec-2006

Hardware Availability: Dec-2006

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon 5110  
 CPU Characteristics: 1.60 GHz, 4MB L2, 1066MHz bus  
 CPU MHz: 1600  
 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)  
 MicroQuill SmartHeap Library 8.0 (shIW32M.lib)  
 Auto Parallel: No  
 File System: NTFS

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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

System State: Default  
Base Pointers: 32-bit  
Peak Pointers: 32-bit  
Other Software: None

## Results Table

| Benchmark     | Base        |             |             |             |             |             | Peak        |             |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|               | Seconds     | Ratio       | Seconds     | Ratio       | Seconds     | Ratio       | Seconds     | Ratio       | Seconds     | Ratio       | Seconds     | Ratio       |
| 410.bwaves    | <b>1051</b> | <b>12.9</b> | 1051        | 12.9        | 1051        | 12.9        | <b>1058</b> | <b>12.8</b> | 1057        | 12.9        | 1058        | 12.8        |
| 416.gamess    | 2074        | 9.44        | 2074        | 9.44        | <b>2074</b> | <b>9.44</b> | 2081        | 9.41        | 2081        | 9.41        | <b>2081</b> | <b>9.41</b> |
| 433.milc      | 1340        | 6.85        | <b>1341</b> | <b>6.84</b> | 1342        | 6.84        | <b>1334</b> | <b>6.88</b> | 1333        | 6.88        | 1335        | 6.88        |
| 434.zeusmp    | 1025        | 8.88        | 1025        | 8.88        | <b>1025</b> | <b>8.88</b> | 1073        | 8.48        | <b>1073</b> | <b>8.48</b> | 1073        | 8.48        |
| 435.gromacs   | <b>771</b>  | <b>9.26</b> | 771         | 9.26        | 771         | 9.26        | 761         | 9.38        | 761         | 9.38        | <b>761</b>  | <b>9.38</b> |
| 436.cactusADM | 1194        | 10.0        | <b>1194</b> | <b>10.0</b> | 1194        | 10.0        | 1202        | 9.94        | 1203        | 9.94        | <b>1202</b> | <b>9.94</b> |
| 437.leslie3d  | 1196        | 7.86        | <b>1196</b> | <b>7.86</b> | 1197        | 7.86        | 1195        | 7.86        | 1195        | 7.86        | <b>1195</b> | <b>7.86</b> |
| 444.namd      | <b>988</b>  | <b>8.12</b> | 988         | 8.12        | 988         | 8.12        | <b>973</b>  | <b>8.24</b> | 973         | 8.24        | 973         | 8.24        |
| 447.dealII    | <b>1027</b> | <b>11.1</b> | 1027        | 11.1        | 1027        | 11.1        | 933         | 12.3        | <b>933</b>  | <b>12.3</b> | 933         | 12.3        |
| 450.soplex    | 982         | 8.49        | <b>982</b>  | <b>8.49</b> | 982         | 8.49        | 977         | 8.53        | <b>977</b>  | <b>8.53</b> | 977         | 8.53        |
| 453.povray    | 467         | 11.4        | <b>466</b>  | <b>11.4</b> | 466         | 11.4        | 369         | 14.4        | <b>369</b>  | <b>14.4</b> | 369         | 14.4        |
| 454.calculix  | 1110        | 7.43        | <b>1111</b> | <b>7.43</b> | 1111        | 7.43        | 1091        | 7.56        | <b>1091</b> | <b>7.56</b> | 1092        | 7.56        |
| 459.GemsFDTD  | 1370        | 7.74        | <b>1368</b> | <b>7.76</b> | 1368        | 7.76        | 1394        | 7.61        | 1393        | 7.62        | <b>1393</b> | <b>7.62</b> |
| 465.tonto     | <b>1494</b> | <b>6.59</b> | 1494        | 6.59        | 1495        | 6.58        | <b>1482</b> | <b>6.64</b> | 1482        | 6.64        | 1482        | 6.64        |
| 470.lbm       | 2898        | 4.74        | 2898        | 4.74        | <b>2898</b> | <b>4.74</b> | <b>2926</b> | <b>4.70</b> | 2926        | 4.70        | 2926        | 4.70        |
| 481.wrf       | <b>1147</b> | <b>9.74</b> | 1147        | 9.74        | 1147        | 9.74        | <b>1187</b> | <b>9.41</b> | 1187        | 9.41        | 1187        | 9.41        |
| 482.sphinx3   | 1675        | 11.6        | <b>1675</b> | <b>11.6</b> | 1675        | 11.6        | 1619        | 12.0        | 1619        | 12.0        | <b>1619</b> | <b>12.0</b> |

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

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