# SPEC® CFP2006 Result

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## Bull SAS

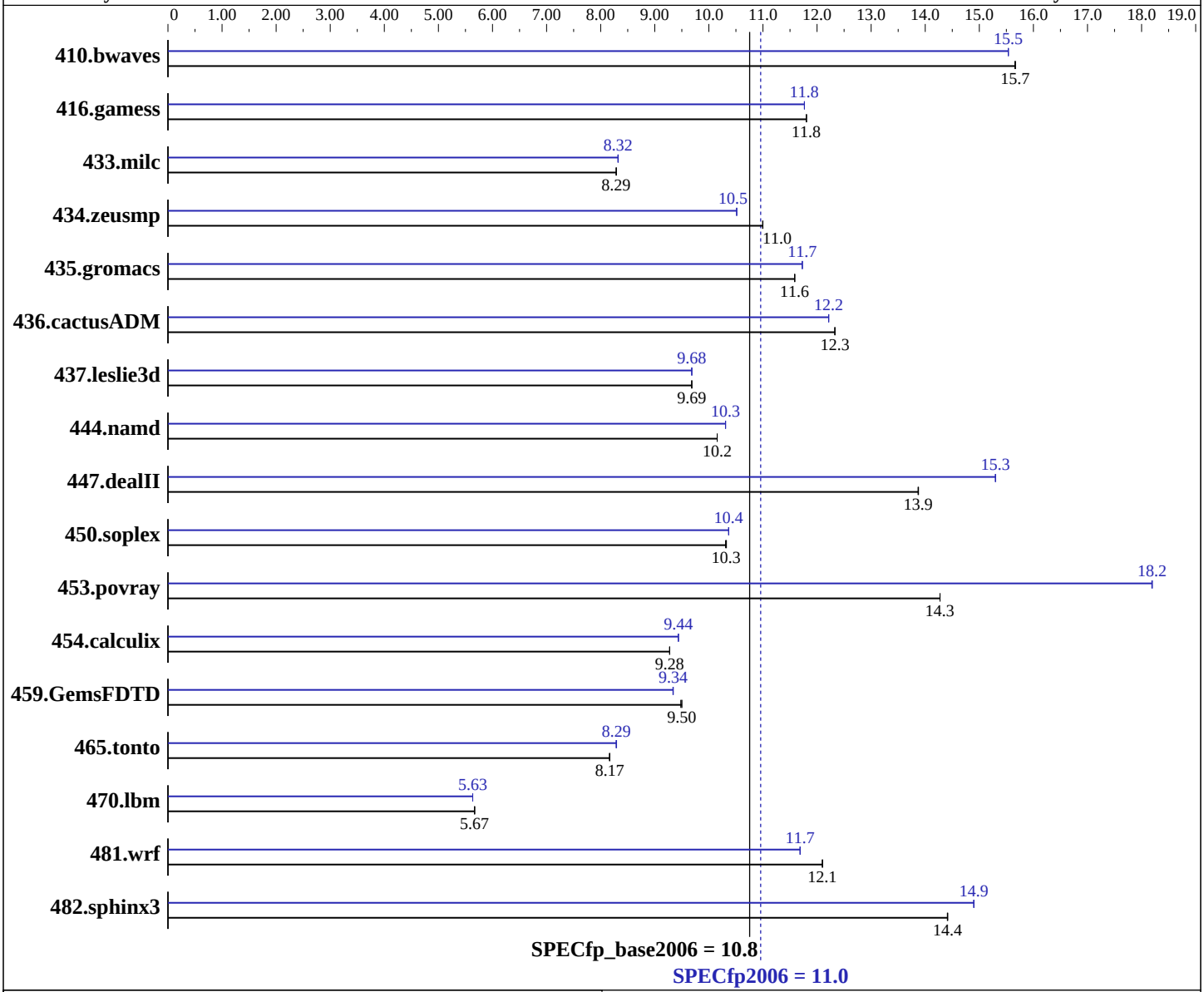
NovaScale B260 (Intel Xeon processor 5130,2.0GHz)

SPECfp®2006 = 11.0

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<br>Intel Fortran Compiler for IA32 version 9.1 Package ID W_FC_C_9.1.033 Build no 20061103Z<br>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 (shlW32M.lib)

## Results Table

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

Continued on next page

## 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

## 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 other inquiries, please contact webmaster@spec.org.

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