# SPEC® CFP2006 Result

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## Bull SAS

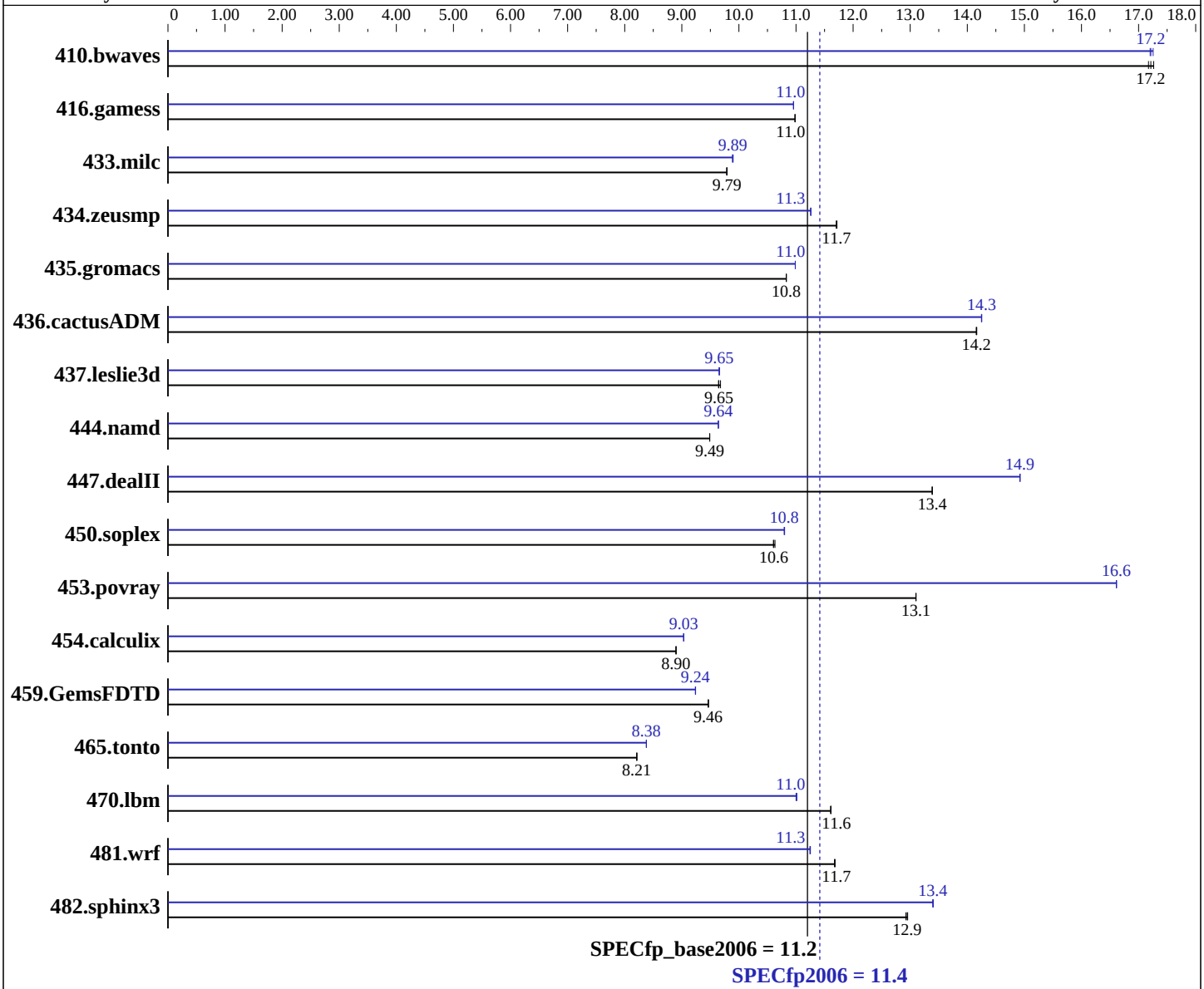
NovaScale T810 (Intel Xeon processor 3040,1.86GHz)

SPECfp®2006 = 11.4

SPECfp_base2006 = 11.2

**CPU2006 license:** 20
**Test sponsor:** Bull SAS
**Tested by:** Bull SAS

**Test date:** Mar-2007
**Hardware Availability:** Feb-2007
**Software Availability:** Dec-2006




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon 3040 |
| CPU Characteristics: | 1.86 GHz, 4MB L2, 1066MHz bus |
| CPU MHz: | 1860 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 2 cores/chip |
| CPU(s) orderable: | 1 chip |
| Primary Cache: | 32 KB I + 32 KB D on chip per core |
| Secondary Cache: | 2 MB I+D on chip per chip |

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### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Enterprise Edition X64 Edition 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, PC2-5300E 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 | **789** | **17.2** | 791 | 17.2 | 787 | 17.3 | **789** | **17.2** | 790 | 17.2 | 788 | 17.3 |
| 416.gamess | 1783 | 11.0 | **1783** | **11.0** | 1783 | 11.0 | 1787 | 11.0 | 1787 | 11.0 | **1787** | **11.0** |
| 433.milc | **938** | **9.79** | 938 | 9.79 | 938 | 9.79 | 927 | 9.90 | 929 | 9.89 | **928** | **9.89** |
| 434.zeusmp | 777 | 11.7 | 777 | 11.7 | **777** | **11.7** | 808 | 11.3 | **808** | **11.3** | 808 | 11.3 |
| 435.gromacs | 659 | 10.8 | 659 | 10.8 | **659** | **10.8** | 650 | 11.0 | **650** | **11.0** | 650 | 11.0 |
| 436.cactusADM | 844 | 14.2 | 844 | 14.2 | **844** | **14.2** | 839 | 14.2 | 838 | 14.3 | **838** | **14.3** |
| 437.leslie3d | 971 | 9.68 | **974** | **9.65** | 975 | 9.64 | 973 | 9.66 | **974** | **9.65** | 974 | 9.65 |
| 444.namd | **845** | **9.49** | 845 | 9.49 | 845 | 9.49 | 832 | 9.64 | **832** | **9.64** | 832 | 9.64 |
| 447.dealII | 855 | 13.4 | **855** | **13.4** | 855 | 13.4 | 767 | 14.9 | **767** | **14.9** | 767 | 14.9 |
| 450.soplex | 784 | 10.6 | **786** | **10.6** | 787 | 10.6 | 772 | 10.8 | **773** | **10.8** | 773 | 10.8 |
| 453.povray | 406 | 13.1 | **406** | **13.1** | 406 | 13.1 | 320 | 16.6 | **320** | **16.6** | 320 | 16.6 |
| 454.calculix | 927 | 8.90 | **927** | **8.90** | 927 | 8.90 | 913 | 9.03 | **913** | **9.03** | 913 | 9.03 |
| 459.GemsFDTD | 1121 | 9.47 | 1121 | 9.46 | **1121** | **9.46** | 1148 | 9.24 | **1148** | **9.24** | 1149 | 9.24 |
| 465.tonto | 1198 | 8.21 | **1198** | **8.21** | 1198 | 8.21 | 1174 | 8.38 | **1174** | **8.38** | 1174 | 8.38 |
| 470.lbm | 1183 | 11.6 | **1183** | **11.6** | 1184 | 11.6 | 1247 | 11.0 | **1248** | **11.0** | 1249 | 11.0 |
| 481.wrf | 956 | 11.7 | 957 | 11.7 | **957** | **11.7** | 993 | 11.3 | 994 | 11.2 | **993** | **11.3** |
| 482.sphinx3 | 1504 | 13.0 | 1508 | 12.9 | **1505** | **12.9** | **1454** | **13.4** | 1455 | 13.4 | 1454 | 13.4 |

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
```

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
```

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## Peak Compiler Invocation (Continued)

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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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