# SPEC® CFP2006 Result

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## Bull SAS

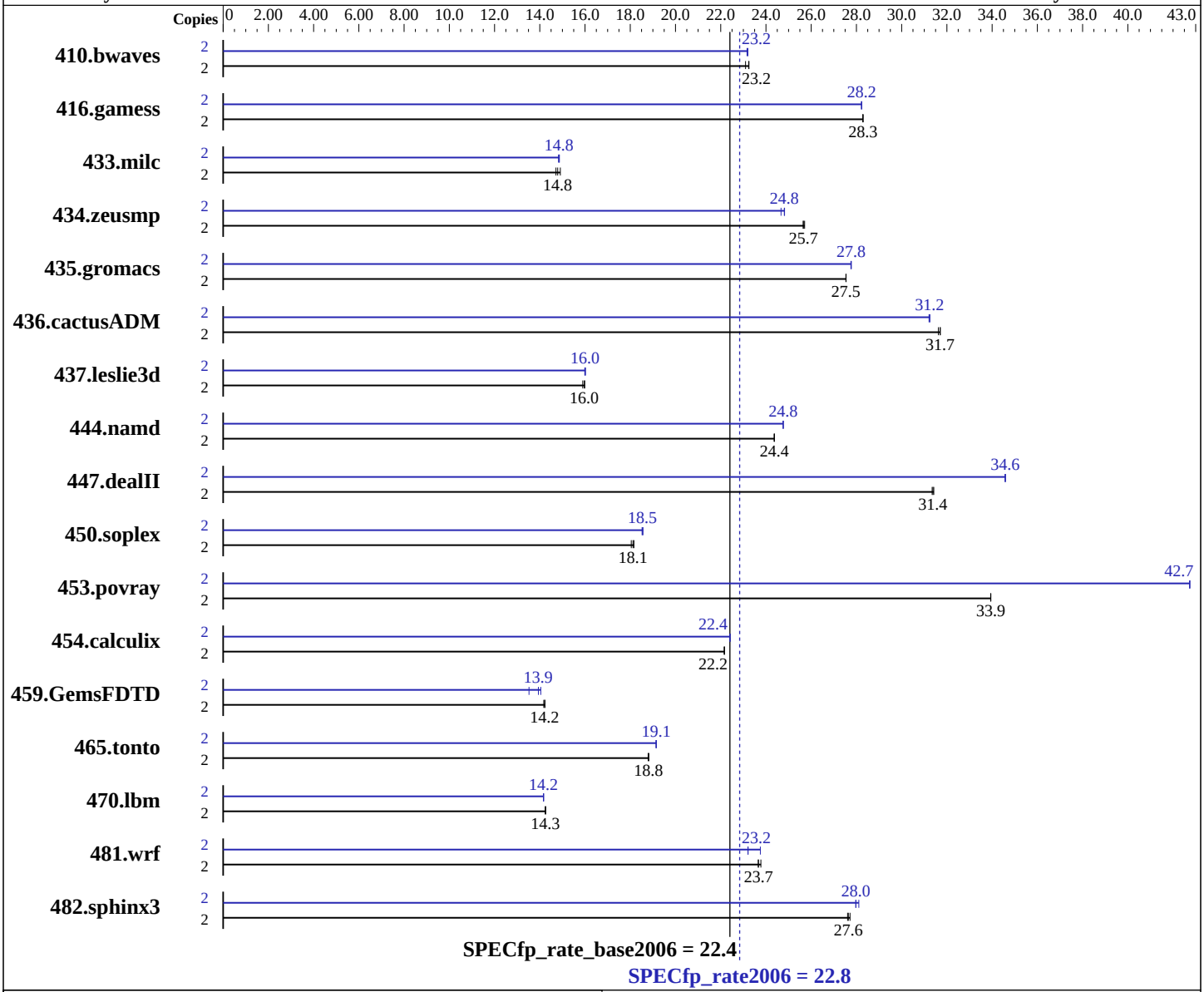
NovaScale T810 (Intel Xeon processor 3060,2.40GHz)

SPECfp®_rate2006 = 22.8

SPECfp_rate_base2006 = 22.4

**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 3060 |
| CPU Characteristics: | 2.40 GHz, 4MB L2, 1066MHz bus |
| CPU MHz: | 2400 |
| FPU: | Integrated |
| CPU(s) enabled: | 2 cores, 1 chip, 2 cores/chip |
| CPU(s) orderable: | 1 chip |
| 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 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 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 410.bwaves | 2 | 1177 | 23.1 | 1169 | 23.2 | **1170** | **23.2** | 2 | **1172** | **23.2** | 1173 | 23.2 | 1171 | 23.2 |
| 416.gamess | 2 | **1384** | **28.3** | 1384 | 28.3 | 1384 | 28.3 | 2 | 1387 | 28.2 | 1387 | 28.2 | **1387** | **28.2** |
| 433.milc | 2 | 1248 | 14.7 | **1241** | **14.8** | 1232 | 14.9 | 2 | 1238 | 14.8 | 1235 | 14.9 | **1236** | **14.8** |
| 434.zeusmp | 2 | 710 | 25.6 | 708 | 25.7 | **709** | **25.7** | 2 | **734** | **24.8** | 738 | 24.7 | 733 | 24.8 |
| 435.gromacs | 2 | 519 | 27.5 | **519** | **27.5** | 518 | 27.5 | 2 | 514 | 27.8 | 514 | 27.8 | **514** | **27.8** |
| 436.cactusADM | 2 | 756 | 31.6 | **754** | **31.7** | 754 | 31.7 | 2 | 766 | 31.2 | 765 | 31.2 | **765** | **31.2** |
| 437.leslie3d | 2 | 1183 | 15.9 | 1176 | 16.0 | **1177** | **16.0** | 2 | 1176 | 16.0 | **1174** | **16.0** | 1174 | 16.0 |
| 444.namd | 2 | **658** | **24.4** | 658 | 24.4 | 658 | 24.4 | 2 | 648 | 24.8 | 648 | 24.8 | **648** | **24.8** |
| 447.dealII | 2 | 730 | 31.3 | 728 | 31.4 | **729** | **31.4** | 2 | **662** | **34.6** | 661 | 34.6 | 662 | 34.6 |
| 450.soplex | 2 | 924 | 18.0 | **921** | **18.1** | 918 | 18.2 | 2 | **899** | **18.5** | 901 | 18.5 | 899 | 18.6 |
| 453.povray | 2 | 313 | 33.9 | **314** | **33.9** | 314 | 33.9 | 2 | **249** | **42.7** | 249 | 42.7 | 249 | 42.7 |
| 454.calculix | 2 | 745 | 22.2 | **745** | **22.2** | 744 | 22.2 | 2 | **736** | **22.4** | 736 | 22.4 | 736 | 22.4 |
| 459.GemsFDTD | 2 | 1497 | 14.2 | **1493** | **14.2** | 1491 | 14.2 | 2 | 1511 | 14.0 | **1523** | **13.9** | 1569 | 13.5 |
| 465.tonto | 2 | 1047 | 18.8 | **1046** | **18.8** | 1046 | 18.8 | 2 | 1028 | 19.2 | **1028** | **19.1** | 1028 | 19.1 |
| 470.lbm | 2 | 1929 | 14.2 | **1928** | **14.3** | 1928 | 14.3 | 2 | 1940 | 14.2 | **1940** | **14.2** | 1940 | 14.2 |
| 481.wrf | 2 | 940 | 23.8 | 944 | 23.7 | **944** | **23.7** | 2 | 941 | 23.8 | 963 | 23.2 | **963** | **23.2** |
| 482.sphinx3 | 2 | 1412 | 27.6 | 1406 | 27.7 | **1410** | **27.6** | 2 | 1394 | 28.0 | 1387 | 28.1 | **1393** | **28.0** |

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
```

## 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.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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