# SPEC® CFP2006 Result

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## Bull SAS

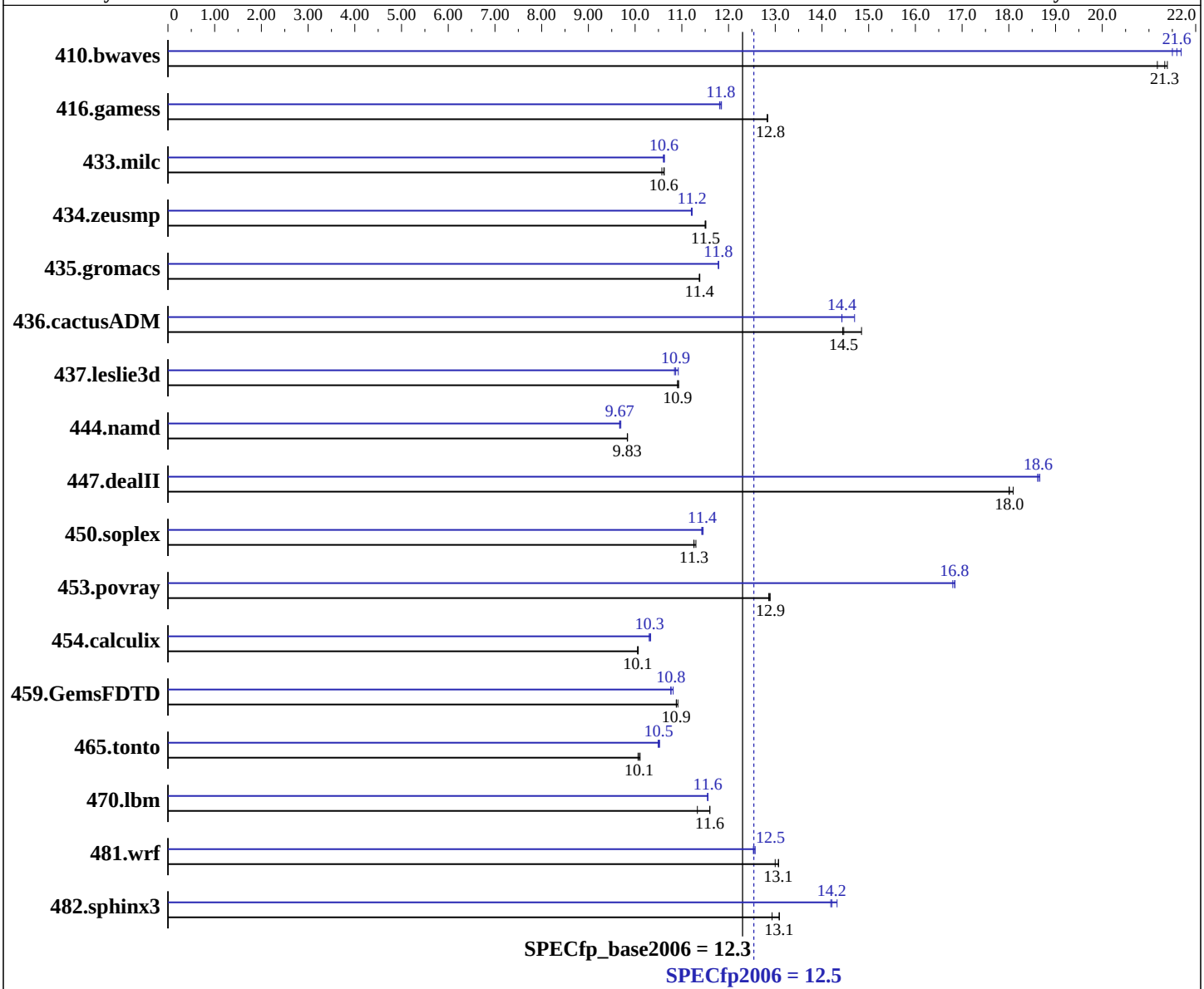
NovaScale R410
(Intel Xeon processor 3040,1.86GHz)

SPECfp®2006 = 12.5

SPECfp_base2006 = 12.3

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

**Test date:** Jun-2007
**Hardware Availability:** Jun-2007
**Software Availability:** Dec-2006




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon 3040 |
| CPU Characteristics: | 1.86 GHz, 4 MB L2, 1066 MHz system 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: | SuSE Linux Enterprise Server 10 (EM64T) kernel 2.6.16.21-0.8-smp |
| Compiler: | Intel C++ Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_cc_c_9.1.045 Build no 20061101 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_fc_c_9.1.040 Build no 20061101 |
| Auto Parallel: | No |

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| | | | |
|---|---|---|---|
| L3 Cache: | None | File System: | ext2 |
| Other Cache: | None | System State: | Multi-user run level 3 |
| Memory: | 8 GB (4x2 GB) PC2-5300E ECC CL5 | Base Pointers: | 64-bit |
| Disk Subsystem: | 1x80 GB SATA, 10000 RPM | Peak Pointers: | 32/64-bit |
| Other Hardware: | None | Other Software: | None |

## Results Table

| Benchmark | Base | | | | | | Peak | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 410.bwaves | 642 | 21.2 | 635 | 21.4 | **637** | **21.3** | **629** | **21.6** | 627 | 21.7 | 632 | 21.5 |
| 416.gamess | 1526 | 12.8 | 1525 | 12.8 | **1526** | **12.8** | **1654** | **11.8** | 1658 | 11.8 | 1652 | 11.8 |
| 433.milc | 868 | 10.6 | 864 | 10.6 | **865** | **10.6** | **865** | **10.6** | 866 | 10.6 | 864 | 10.6 |
| 434.zeusmp | 791 | 11.5 | 790 | 11.5 | **791** | **11.5** | 812 | 11.2 | 811 | 11.2 | **811** | **11.2** |
| 435.gromacs | 627 | 11.4 | **627** | **11.4** | 628 | 11.4 | 606 | 11.8 | 606 | 11.8 | **606** | **11.8** |
| 436.cactusADM | 805 | 14.8 | 827 | 14.4 | **826** | **14.5** | 828 | 14.4 | 813 | 14.7 | **828** | **14.4** |
| 437.leslie3d | **861** | **10.9** | 860 | 10.9 | 862 | 10.9 | 860 | 10.9 | 867 | 10.8 | **865** | **10.9** |
| 444.namd | 815 | 9.84 | 816 | 9.83 | **816** | **9.83** | 829 | 9.67 | 827 | 9.69 | **829** | **9.67** |
| 447.dealII | 632 | 18.1 | **635** | **18.0** | 635 | 18.0 | 613 | 18.7 | **614** | **18.6** | 614 | 18.6 |
| 450.soplex | **741** | **11.3** | 741 | 11.3 | 738 | 11.3 | 730 | 11.4 | 728 | 11.5 | **729** | **11.4** |
| 453.povray | 414 | 12.9 | **413** | **12.9** | 413 | 12.9 | **316** | **16.8** | 316 | 16.8 | 317 | 16.8 |
| 454.calculix | 819 | 10.1 | **820** | **10.1** | 821 | 10.1 | 801 | 10.3 | 798 | 10.3 | **800** | **10.3** |
| 459.GemsFDTD | 972 | 10.9 | **975** | **10.9** | 975 | 10.9 | 981 | 10.8 | **985** | **10.8** | 985 | 10.8 |
| 465.tonto | 978 | 10.1 | 974 | 10.1 | **975** | **10.1** | 935 | 10.5 | **936** | **10.5** | 938 | 10.5 |
| 470.lbm | 1184 | 11.6 | **1185** | **11.6** | 1212 | 11.3 | 1190 | 11.5 | 1188 | 11.6 | **1189** | **11.6** |
| 481.wrf | 859 | 13.0 | 855 | 13.1 | **855** | **13.1** | **890** | **12.5** | 891 | 12.5 | 889 | 12.6 |
| 482.sphinx3 | **1490** | **13.1** | 1507 | 12.9 | 1489 | 13.1 | **1371** | **14.2** | 1374 | 14.2 | 1361 | 14.3 |

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Operating System Notes

```
Environment stack size set to 'unlimited'

system was booted uniprocessor by setting "maxcpus=0"
kernel parameter in menu.lst
```

## Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Continued on next page

## Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

## Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

## Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

## Peak Compiler Invocation

C benchmarks:
icc

Continued on next page

## Peak Compiler Invocation (Continued)

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

C++ benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Fortran benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast

Benchmarks using both Fortran and C:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.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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