SPEC® CFP2006 Result

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Bull SAS

NovaScale B280 (Intel Xeon processor 5110,1.60GHz)

$SPECfp®2006 =$ 9.07

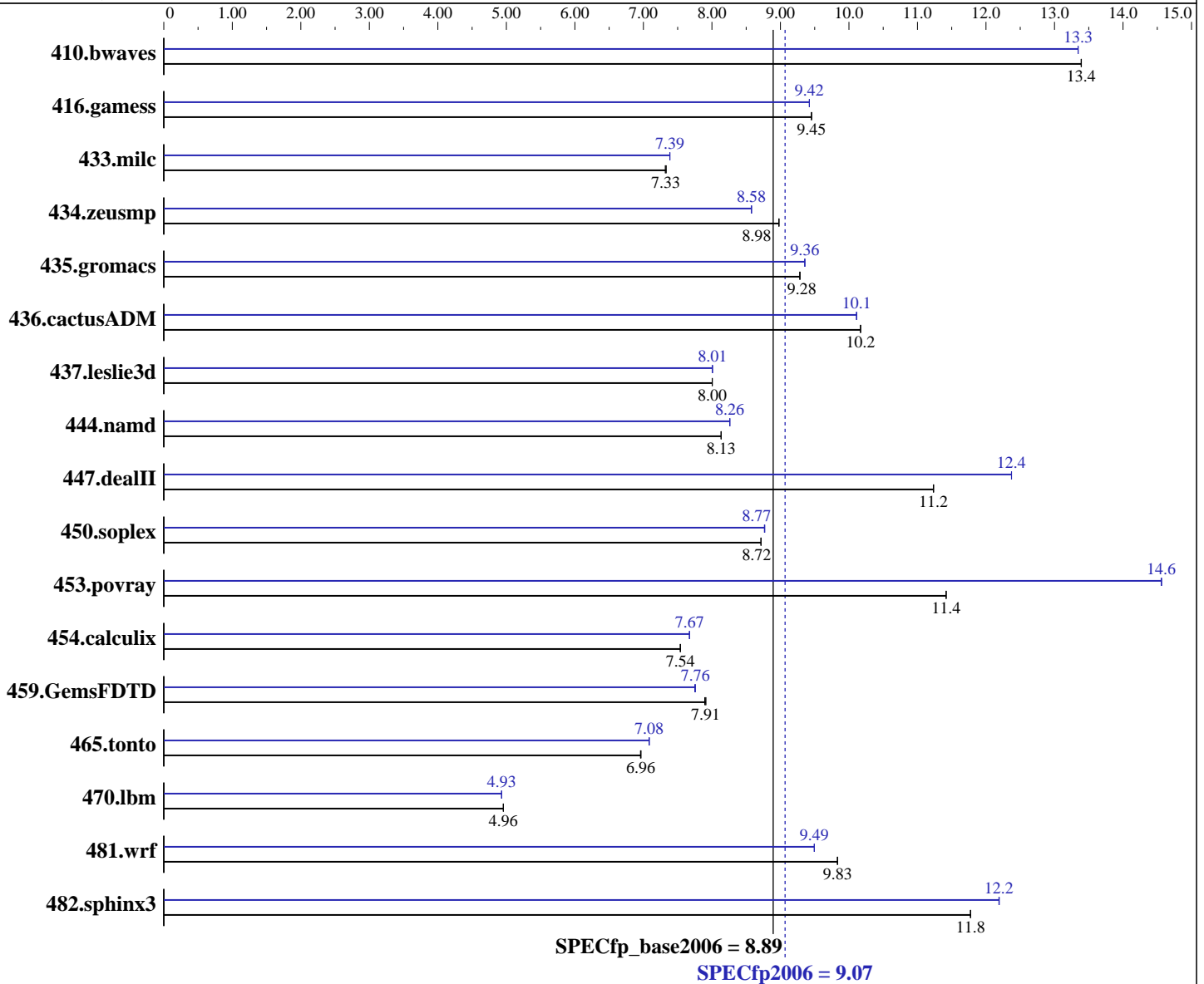$SPECfp\_base2006 =$ 8.89

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

Test date: Dec-2006
Hardware Availability: Jan-2007
Software Availability: Dec-2006

Benchmark	Peak	Base
410.bwaves	13.3	13.4
416.gamess	9.42	9.45
433.milc	7.39	7.33
434.zeusmp	8.58	8.98
435.gromacs	9.36	9.28
436.cactusADM	10.1	10.2
437.leslie3d	8.01	8.00
444.namd	8.26	8.13
447.dealII	12.4	11.2
450.soplex	8.77	8.72
453.povray	14.6	11.4
454.calculix	7.67	7.54
459.GemsFDTD	7.76	7.91
465.tonto	7.08	6.96
470.lbm	4.93	4.96
481.wrf	9.49	9.83
482.sphinx3	12.2	11.8

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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)
Auto Parallel: No
File System: NTFS
System State: Default

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L3 Cache: None
Other Cache: None
Memory: 8 GB (1GB DIMMx8, 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	1015	13.4	**1015**	**13.4**	1015	13.4	1018	13.3	**1018**	**13.3**	1018	13.3
416.gamess	**2071**	**9.45**	2071	9.45	2071	9.45	2078	9.42	**2078**	**9.42**	2078	9.42
433.milc	1252	7.33	1254	7.32	**1253**	**7.33**	1243	7.39	1243	7.38	**1243**	**7.39**
434.zeusmp	1014	8.98	1014	8.98	**1014**	**8.98**	1061	8.58	**1061**	**8.58**	1061	8.58
435.gromacs	769	9.29	**769**	**9.28**	769	9.28	**763**	**9.36**	763	9.36	763	9.35
436.cactusADM	**1175**	**10.2**	1175	10.2	1175	10.2	1182	10.1	**1182**	**10.1**	1182	10.1
437.leslie3d	1174	8.00	1174	8.01	**1174**	**8.00**	1174	8.01	1174	8.01	**1174**	**8.01**
444.namd	986	8.14	**986**	**8.13**	986	8.13	**971**	**8.26**	971	8.26	971	8.26
447.dealII	**1018**	**11.2**	1019	11.2	1018	11.2	925	12.4	**925**	**12.4**	925	12.4
450.soplex	**957**	**8.72**	957	8.72	957	8.72	951	8.77	951	8.77	**951**	**8.77**
453.povray	466	11.4	**466**	**11.4**	466	11.4	365	14.6	**365**	**14.6**	365	14.6
454.calculix	1094	7.54	**1094**	**7.54**	1094	7.54	**1075**	**7.67**	1075	7.67	1075	7.67
459.GemsFDTD	1344	7.89	**1341**	**7.91**	1341	7.91	1369	7.75	**1368**	**7.76**	1368	7.76
465.tonto	**1413**	**6.96**	1414	6.96	1413	6.96	1389	7.08	1389	7.09	**1389**	**7.08**
470.lbm	2773	4.96	2772	4.96	**2773**	**4.96**	2787	4.93	**2787**	**4.93**	2786	4.93
481.wrf	1136	9.83	1136	9.83	**1136**	**9.83**	**1177**	**9.49**	1177	9.49	1176	9.50
482.sphinx3	1656	11.8	1655	11.8	**1655**	**11.8**	1599	12.2	**1599**	**12.2**	1598	12.2

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

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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
```

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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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