SPEC® CFP2006 Result
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Bull SAS

NovaScale B280 (Intel Xeon processor E5335, 2.00GHz)

$SPECfp^®2006 =$ 11.2

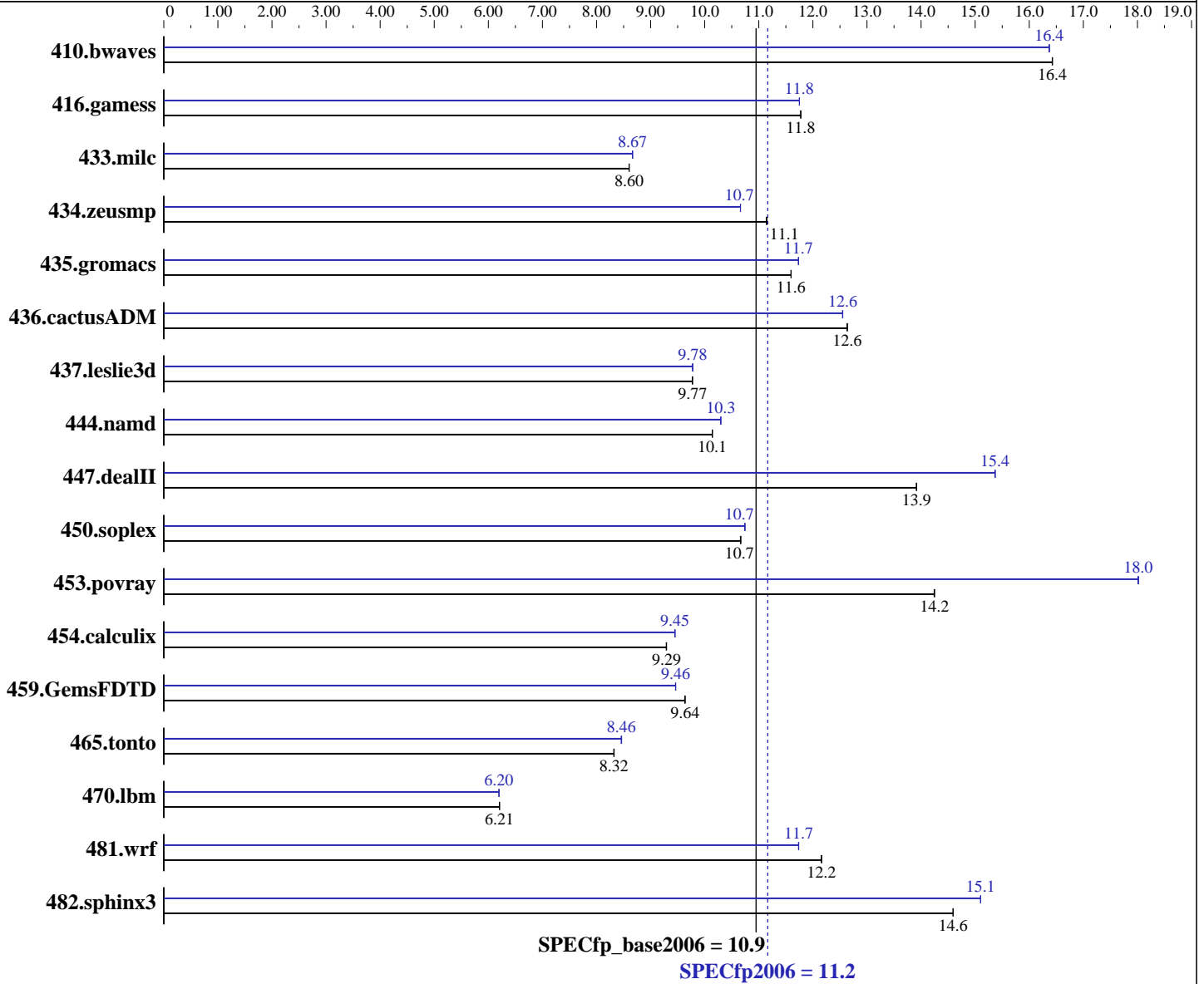$SPECfp\_base2006 =$ 10.9

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

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

Benchmark	base	result
410.bwaves	16.4	16.4
416.gamess	11.8	11.8
433.milc	8.67	8.60
434.zeusmp	10.7	11.1
435.gromacs	11.7	11.6
436.cactusADM	12.6	12.6
437.leslie3d	9.78	9.77
444.namd	10.3	10.1
447.dealII	15.4	13.9
450.soplex	10.7	10.7
453.povray	18.0	14.2
454.calculix	9.45	9.29
459.GemsFDTD	9.46	9.64
465.tonto	8.46	8.32
470.lbm	6.20	6.21
481.wrf	11.7	12.2
482.sphinx3	15.1	14.6

SPECfp_base2006 = 10.9
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Hardware

CPU Name:	Intel Xeon E5335
CPU Characteristics:	2.00 GHz, 8MB L2, 1333MHz bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 4 cores/chip
CPU(s) orderable:	1 to 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

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	Base Pointers:	32-bit
Other Cache:	None	Peak Pointers:	32-bit
Memory:	8 GB (1GB DIMMx8, FB-DIMM PC2-5300F ECC CL5)	Other Software:	MicroQuill SmartHeap Library 8.0 (shlW32M.lib)
Disk Subsystem:	73 GB SAS, 10000RPM		
Other Hardware:	None		

Results Table

	Base						Peak					
Benchmark	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
410.bwaves	827	16.4	**827**	**16.4**	827	16.4	**830**	**16.4**	830	16.4	830	16.4
416.gamess	1663	11.8	1663	11.8	**1663**	**11.8**	1666	11.8	1666	11.7	**1666**	**11.8**
433.milc	**1067**	**8.60**	1067	8.60	1067	8.60	**1059**	**8.67**	1059	8.67	1060	8.66
434.zeusmp	**816**	**11.1**	816	11.1	817	11.1	853	10.7	**854**	**10.7**	854	10.7
435.gromacs	**616**	**11.6**	616	11.6	616	11.6	608	11.7	**608**	**11.7**	609	11.7
436.cactusADM	946	12.6	**946**	**12.6**	946	12.6	**952**	**12.6**	952	12.6	952	12.5
437.leslie3d	962	9.78	**962**	**9.77**	962	9.77	**961**	**9.78**	961	9.78	962	9.77
444.namd	791	10.1	**791**	**10.1**	791	10.1	779	10.3	**779**	**10.3**	779	10.3
447.dealII	**822**	**13.9**	822	13.9	822	13.9	**744**	**15.4**	744	15.4	744	15.4
450.soplex	782	10.7	**782**	**10.7**	782	10.7	776	10.7	**776**	**10.7**	777	10.7
453.povray	373	14.2	374	14.2	**373**	**14.2**	295	18.0	295	18.0	**295**	**18.0**
454.calculix	**888**	**9.29**	887	9.30	888	9.29	873	9.45	**873**	**9.45**	873	9.45
459.GemsFDTD	1101	9.64	1101	9.64	**1101**	**9.64**	1121	9.46	**1121**	**9.46**	1122	9.46
465.tonto	1182	8.33	**1183**	**8.32**	1183	8.32	**1163**	**8.46**	1164	8.46	1162	8.46
470.lbm	2214	6.21	2214	6.21	**2214**	**6.21**	2217	6.20	**2217**	**6.20**	2217	6.20
481.wrf	**919**	**12.2**	919	12.2	919	12.2	952	11.7	952	11.7	**952**	**11.7**
482.sphinx3	1336	14.6	**1336**	**14.6**	1336	14.6	**1291**	**15.1**	1291	15.1	1291	15.1

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
```

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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

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

Tested with SPEC CPU2006 v1.0.
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