SPEC® CFP2006 Result

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Bull SAS

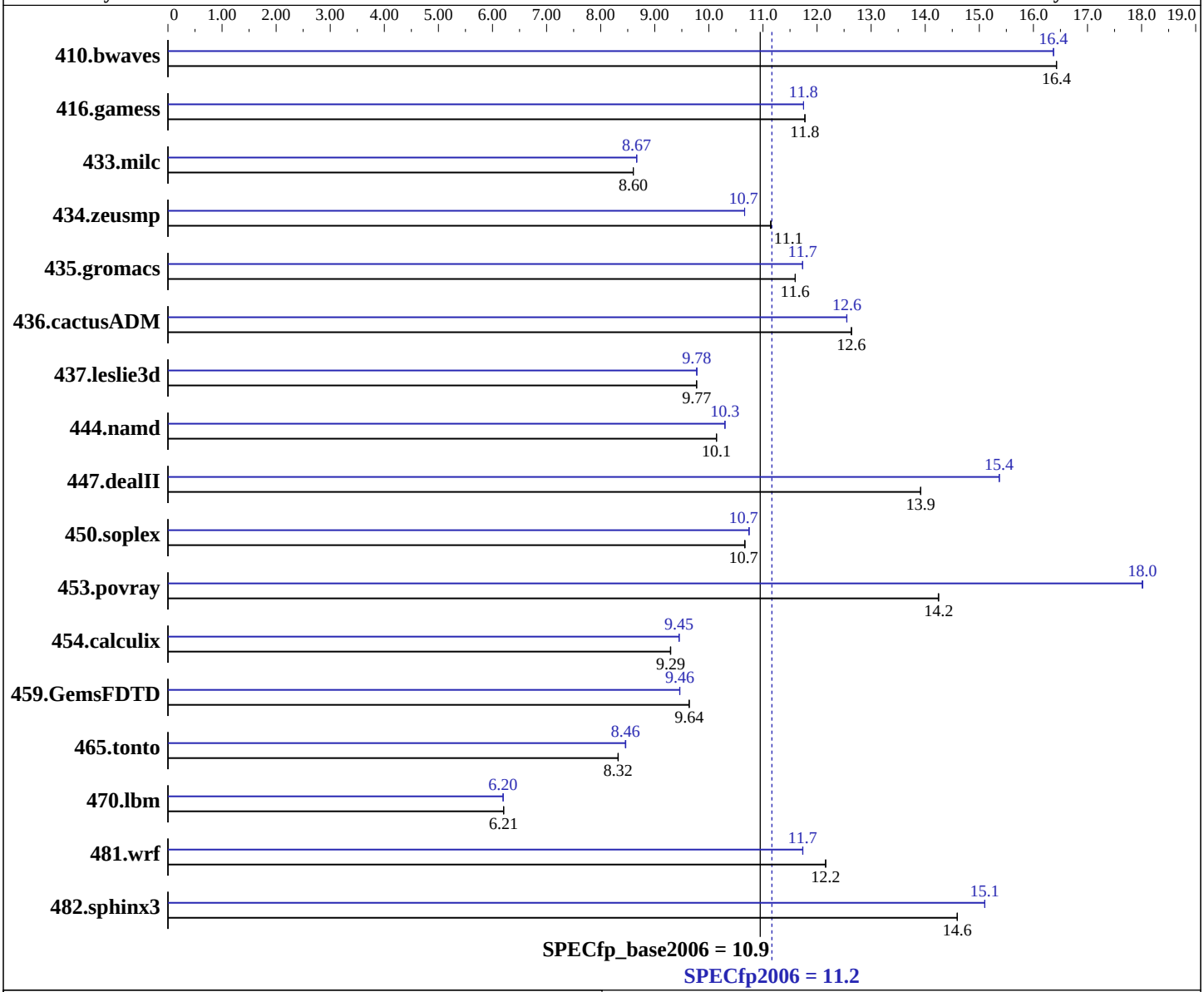
NovaScale B280 (Intel Xeon processor E5335,2.00GHz)

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



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

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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	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
```

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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