SPEC® CFP2006 Result

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Bull SAS

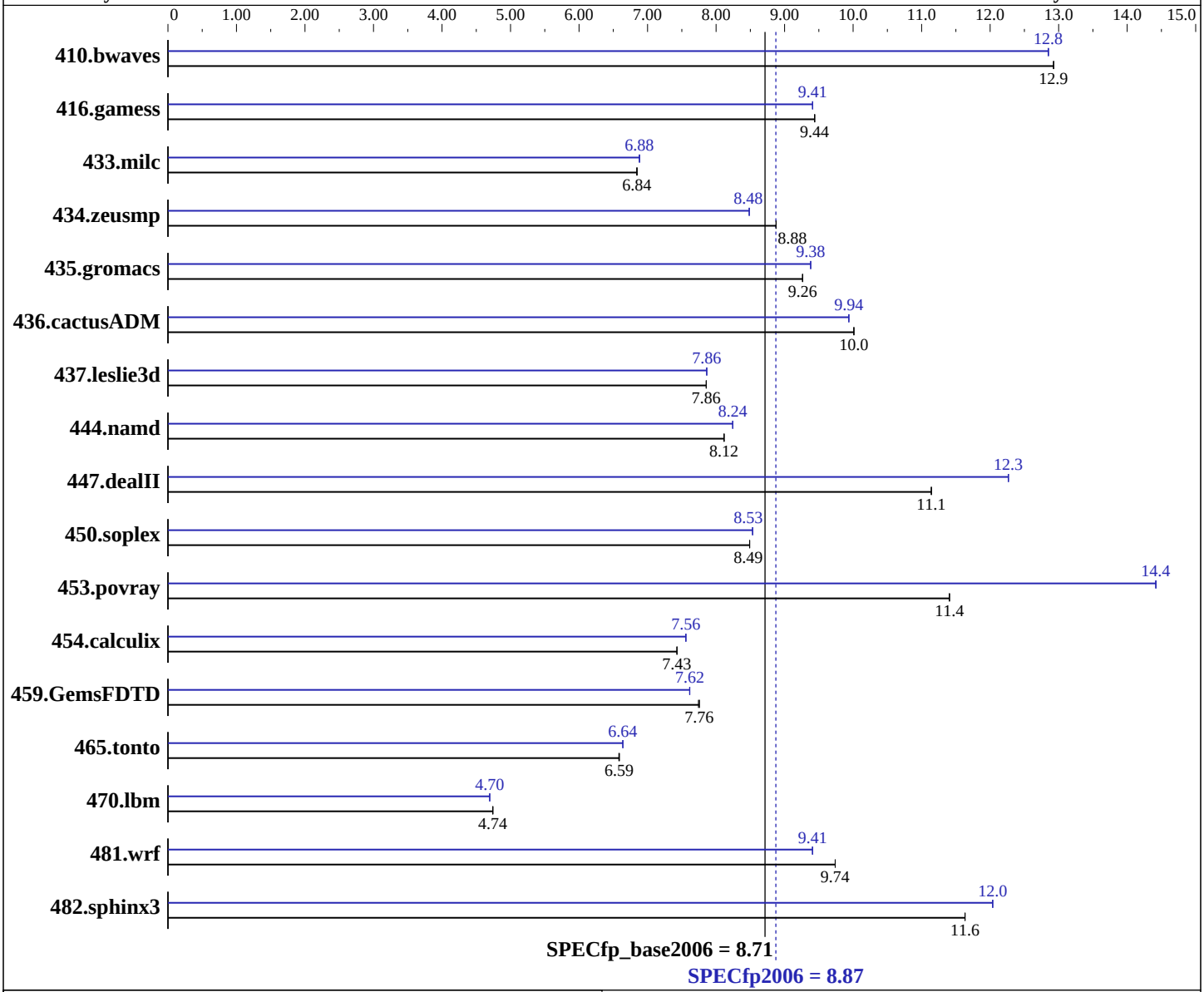
NovaScale B260 (Intel Xeon processor 5110,1.60GHz)

SPECfp®2006 = 8.87

SPECfp_base2006 = 8.71

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

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



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) MicroQuill SmartHeap Library 8.0 (shlW32M.lib)
Auto Parallel:	No
File System:	NTFS

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L3 Cache: None
Other Cache: None
Memory: 8 GB (2GB DIMMx4, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem: 73 GB SAS, 10000RPM
Other Hardware: None

System State: Default
Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	**1051**	**12.9**	1051	12.9	1051	12.9	**1058**	**12.8**	1057	12.9	1058	12.8
416.gamess	2074	9.44	2074	9.44	**2074**	**9.44**	2081	9.41	2081	9.41	**2081**	**9.41**
433.milc	1340	6.85	**1341**	**6.84**	1342	6.84	**1334**	**6.88**	1333	6.88	1335	6.88
434.zeusmp	1025	8.88	1025	8.88	**1025**	**8.88**	1073	8.48	**1073**	**8.48**	1073	8.48
435.gromacs	**771**	**9.26**	771	9.26	771	9.26	761	9.38	761	9.38	**761**	**9.38**
436.cactusADM	1194	10.0	**1194**	**10.0**	1194	10.0	1202	9.94	1203	9.94	**1202**	**9.94**
437.leslie3d	1196	7.86	**1196**	**7.86**	1197	7.86	1195	7.86	1195	7.86	**1195**	**7.86**
444.namd	**988**	**8.12**	988	8.12	988	8.12	**973**	**8.24**	973	8.24	973	8.24
447.dealII	**1027**	**11.1**	1027	11.1	1027	11.1	933	12.3	**933**	**12.3**	933	12.3
450.soplex	982	8.49	**982**	**8.49**	982	8.49	977	8.53	**977**	**8.53**	977	8.53
453.povray	467	11.4	**466**	**11.4**	466	11.4	369	14.4	**369**	**14.4**	369	14.4
454.calculix	1110	7.43	**1111**	**7.43**	1111	7.43	1091	7.56	**1091**	**7.56**	1092	7.56
459.GemsFDTD	1370	7.74	**1368**	**7.76**	1368	7.76	1394	7.61	1393	7.62	**1393**	**7.62**
465.tonto	**1494**	**6.59**	1494	6.59	1495	6.58	**1482**	**6.64**	1482	6.64	1482	6.64
470.lbm	2898	4.74	2898	4.74	**2898**	**4.74**	**2926**	**4.70**	2926	4.70	2926	4.70
481.wrf	**1147**	**9.74**	1147	9.74	1147	9.74	**1187**	**9.41**	1187	9.41	1187	9.41
482.sphinx3	1675	11.6	**1675**	**11.6**	1675	11.6	1619	12.0	1619	12.0	**1619**	**12.0**

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.20090715.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/flags.20090715.xml

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