SPEC® CFP2006 Result

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Bull SAS

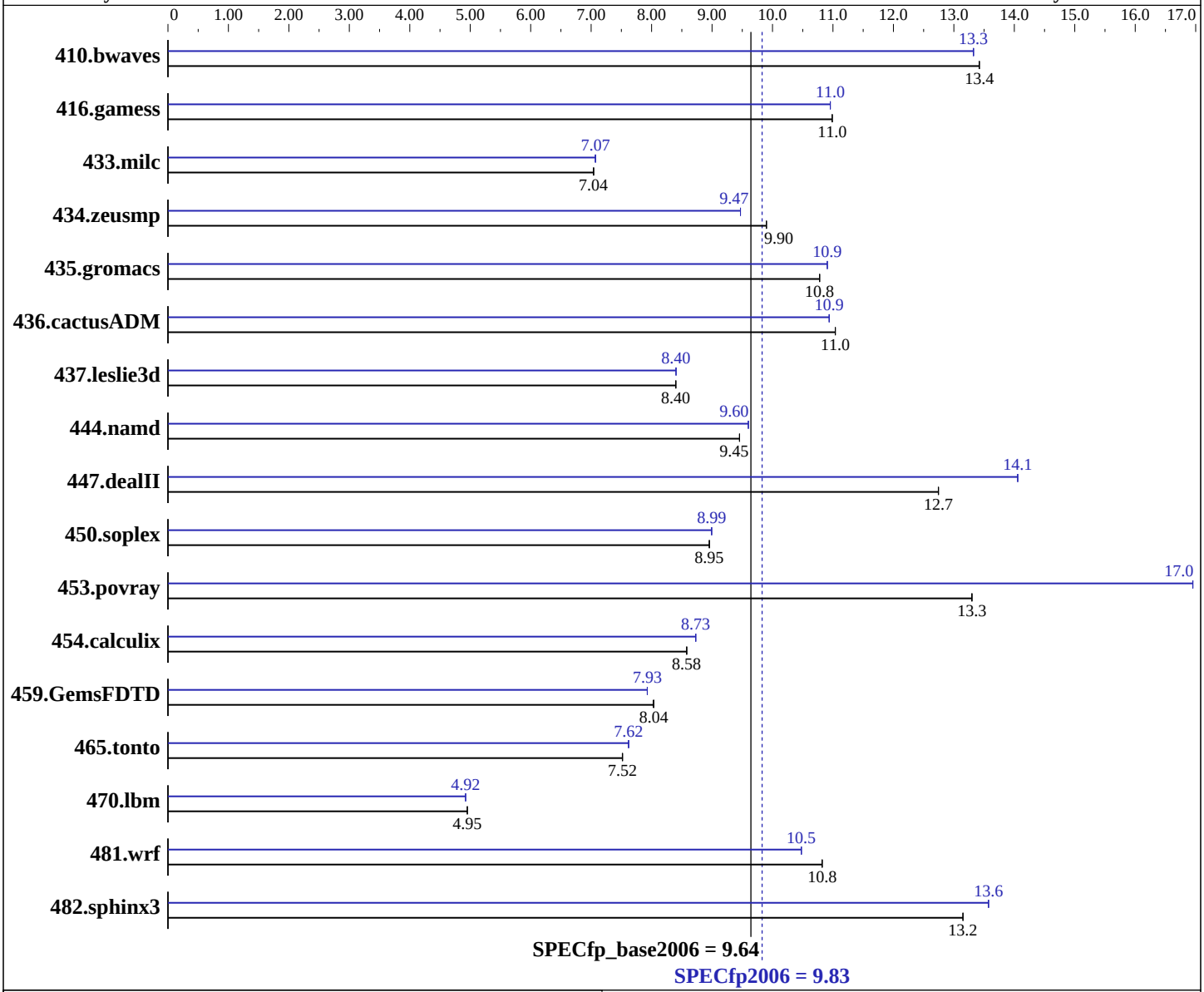
NovaScale B260 (Intel Xeon processor E5320,1.86GHz)

SPECfp®2006 = 9.83

SPECfp_base2006 = 9.64

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

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



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 8MB L2, 1066MHz bus
CPU MHz:	1860
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 (2GB DIMMx4, 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	1013	13.4	**1013**	**13.4**	1012	13.4	**1020**	**13.3**	1020	13.3	1020	13.3
416.gamess	1782	11.0	1782	11.0	**1782**	**11.0**	1787	11.0	**1787**	**11.0**	1787	11.0
433.milc	1303	7.04	**1304**	**7.04**	1304	7.04	**1298**	**7.07**	1298	7.07	1299	7.07
434.zeusmp	919	9.90	919	9.90	**919**	**9.90**	961	9.47	961	9.47	**961**	**9.47**
435.gromacs	662	10.8	**662**	**10.8**	662	10.8	655	10.9	**655**	**10.9**	655	10.9
436.cactusADM	1082	11.0	**1083**	**11.0**	1083	11.0	**1093**	**10.9**	1093	10.9	1093	10.9
437.leslie3d	1119	8.40	1119	8.40	**1119**	**8.40**	**1119**	**8.40**	1119	8.40	1118	8.40
444.namd	**848**	**9.45**	848	9.45	848	9.45	835	9.60	**835**	**9.60**	835	9.60
447.dealII	**898**	**12.7**	898	12.7	897	12.7	814	14.1	**814**	**14.1**	814	14.1
450.soplex	931	8.96	932	8.95	**931**	**8.95**	**927**	**8.99**	927	8.99	927	8.99
453.povray	400	13.3	400	13.3	**400**	**13.3**	**314**	**17.0**	314	17.0	314	17.0
454.calculix	961	8.58	962	8.58	**962**	**8.58**	**945**	**8.73**	945	8.73	945	8.73
459.GemsFDTD	1322	8.03	**1320**	**8.04**	1320	8.04	1338	7.93	1338	7.93	**1338**	**7.93**
465.tonto	1308	7.52	**1309**	**7.52**	1309	7.52	**1292**	**7.62**	1292	7.62	1291	7.62
470.lbm	2775	4.95	2775	4.95	**2775**	**4.95**	**2791**	**4.92**	2791	4.92	2791	4.92
481.wrf	**1032**	**10.8**	1033	10.8	1032	10.8	1066	10.5	**1066**	**10.5**	1066	10.5
482.sphinx3	1482	13.2	**1482**	**13.2**	1482	13.2	**1436**	**13.6**	1436	13.6	1436	13.6

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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