SPEC® CFP2006 Result

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Bull SAS

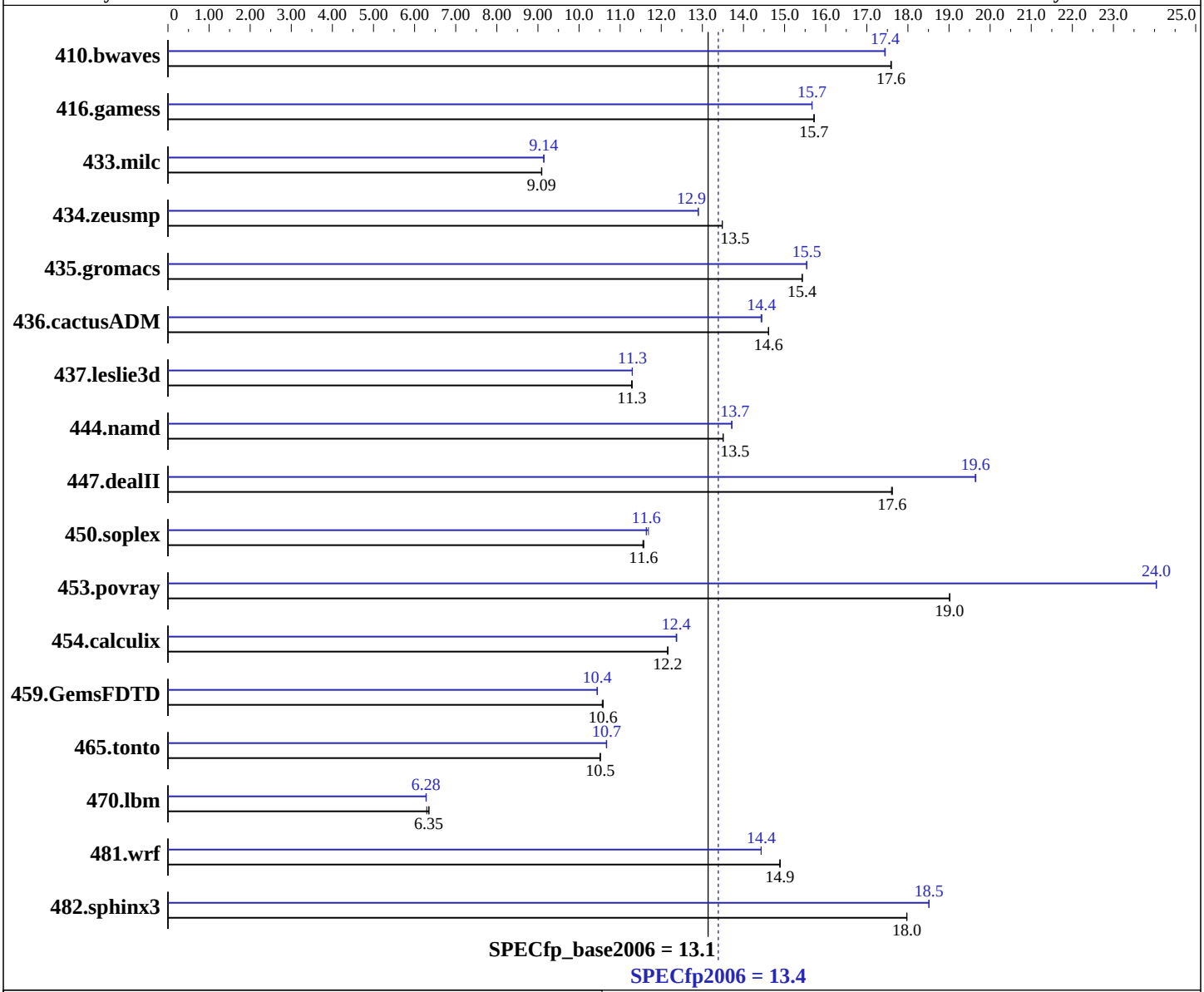
NovaScale B280 (Intel Xeon processor 5150,2.66GHz)

SPECfp®2006 = 13.4

SPECfp_base2006 = 13.1

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 5150
CPU Characteristics:	2.66 GHz, 4MB L2, 1333MHz bus
CPU MHz:	2660
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	**773**	**17.6**	773	17.6	772	17.6	**779**	**17.4**	779	17.4	779	17.4
416.gamess	1246	15.7	**1246**	**15.7**	1246	15.7	1250	15.7	1250	15.7	**1250**	**15.7**
433.milc	1009	9.10	**1010**	**9.09**	1010	9.09	1004	9.14	1004	9.14	**1004**	**9.14**
434.zeusmp	**675**	**13.5**	675	13.5	675	13.5	**706**	**12.9**	706	12.9	705	12.9
435.gromacs	463	15.4	463	15.4	**463**	**15.4**	460	15.5	459	15.5	**459**	**15.5**
436.cactusADM	**818**	**14.6**	818	14.6	818	14.6	**827**	**14.4**	828	14.4	827	14.4
437.leslie3d	832	11.3	**833**	**11.3**	833	11.3	832	11.3	833	11.3	**832**	**11.3**
444.namd	**594**	**13.5**	594	13.5	594	13.5	585	13.7	585	13.7	**585**	**13.7**
447.dealII	**649**	**17.6**	650	17.6	649	17.6	**582**	**19.6**	582	19.7	583	19.6
450.soplex	721	11.6	**721**	**11.6**	722	11.6	**717**	**11.6**	717	11.6	714	11.7
453.povray	280	19.0	280	19.0	**280**	**19.0**	221	24.0	221	24.0	**221**	**24.0**
454.calculix	679	12.2	**679**	**12.2**	678	12.2	**667**	**12.4**	667	12.4	667	12.4
459.GemsFDTD	1004	10.6	1002	10.6	**1003**	**10.6**	**1016**	**10.4**	1016	10.4	1016	10.4
465.tonto	**936**	**10.5**	936	10.5	935	10.5	922	10.7	923	10.7	**922**	**10.7**
470.lbm	2182	6.30	2164	6.35	**2165**	**6.35**	**2188**	**6.28**	2189	6.28	2186	6.28
481.wrf	750	14.9	**750**	**14.9**	750	14.9	774	14.4	774	14.4	**774**	**14.4**
482.sphinx3	**1084**	**18.0**	1084	18.0	1085	18.0	**1053**	**18.5**	1053	18.5	1053	18.5

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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