SPEC® CFP2006 Result

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Bull SAS

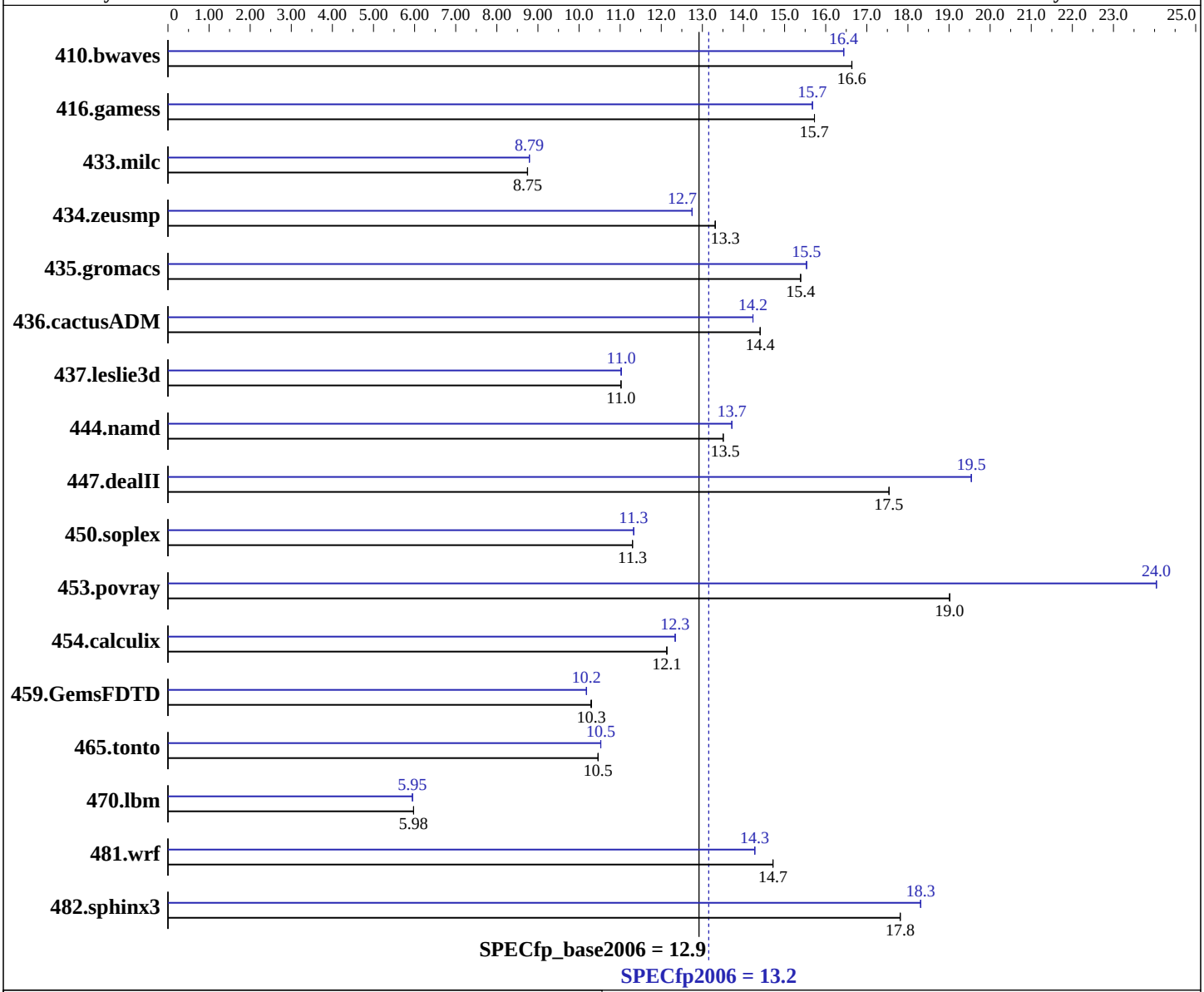
NovaScale B260 (Intel Xeon processor 5150,2.66GHz)

SPECfp®2006 = 13.2

SPECfp_base2006 = 12.9

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 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 (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	817	16.6	817	16.6	**817**	**16.6**	**827**	**16.4**	827	16.4	827	16.4
416.gamess	1245	15.7	**1245**	**15.7**	1245	15.7	1249	15.7	1249	15.7	**1249**	**15.7**
433.milc	1050	8.74	**1049**	**8.75**	1049	8.75	**1044**	**8.79**	1045	8.79	1043	8.80
434.zeusmp	683	13.3	**683**	**13.3**	684	13.3	**714**	**12.7**	714	12.7	714	12.7
435.gromacs	464	15.4	**464**	**15.4**	464	15.4	**460**	**15.5**	460	15.5	460	15.5
436.cactusADM	829	14.4	**829**	**14.4**	830	14.4	840	14.2	**840**	**14.2**	840	14.2
437.leslie3d	**853**	**11.0**	853	11.0	853	11.0	853	11.0	852	11.0	**852**	**11.0**
444.namd	594	13.5	**594**	**13.5**	594	13.5	**585**	**13.7**	585	13.7	585	13.7
447.dealII	**652**	**17.5**	652	17.5	652	17.5	585	19.5	**585**	**19.5**	585	19.5
450.soplex	738	11.3	**738**	**11.3**	738	11.3	736	11.3	736	11.3	**736**	**11.3**
453.povray	**280**	**19.0**	280	19.0	280	19.0	221	24.0	221	24.0	**221**	**24.0**
454.calculix	**680**	**12.1**	680	12.1	680	12.1	**669**	**12.3**	668	12.3	669	12.3
459.GemsFDTD	1031	10.3	1030	10.3	**1030**	**10.3**	1042	10.2	1042	10.2	**1042**	**10.2**
465.tonto	**940**	**10.5**	940	10.5	941	10.5	935	10.5	934	10.5	**935**	**10.5**
470.lbm	**2299**	**5.98**	2299	5.98	2300	5.97	2310	5.95	**2310**	**5.95**	2310	5.95
481.wrf	759	14.7	759	14.7	**759**	**14.7**	782	14.3	783	14.3	**782**	**14.3**
482.sphinx3	1094	17.8	1094	17.8	**1094**	**17.8**	1064	18.3	**1064**	**18.3**	1065	18.3

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
Other Configuration Notes
   /NUMPROC=1 flag was added to boot.ini to invoke
   uniprocessor environment
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

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Base Compiler Invocation (Continued)

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
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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