SPEC® CFP2006 Result

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Bull SAS

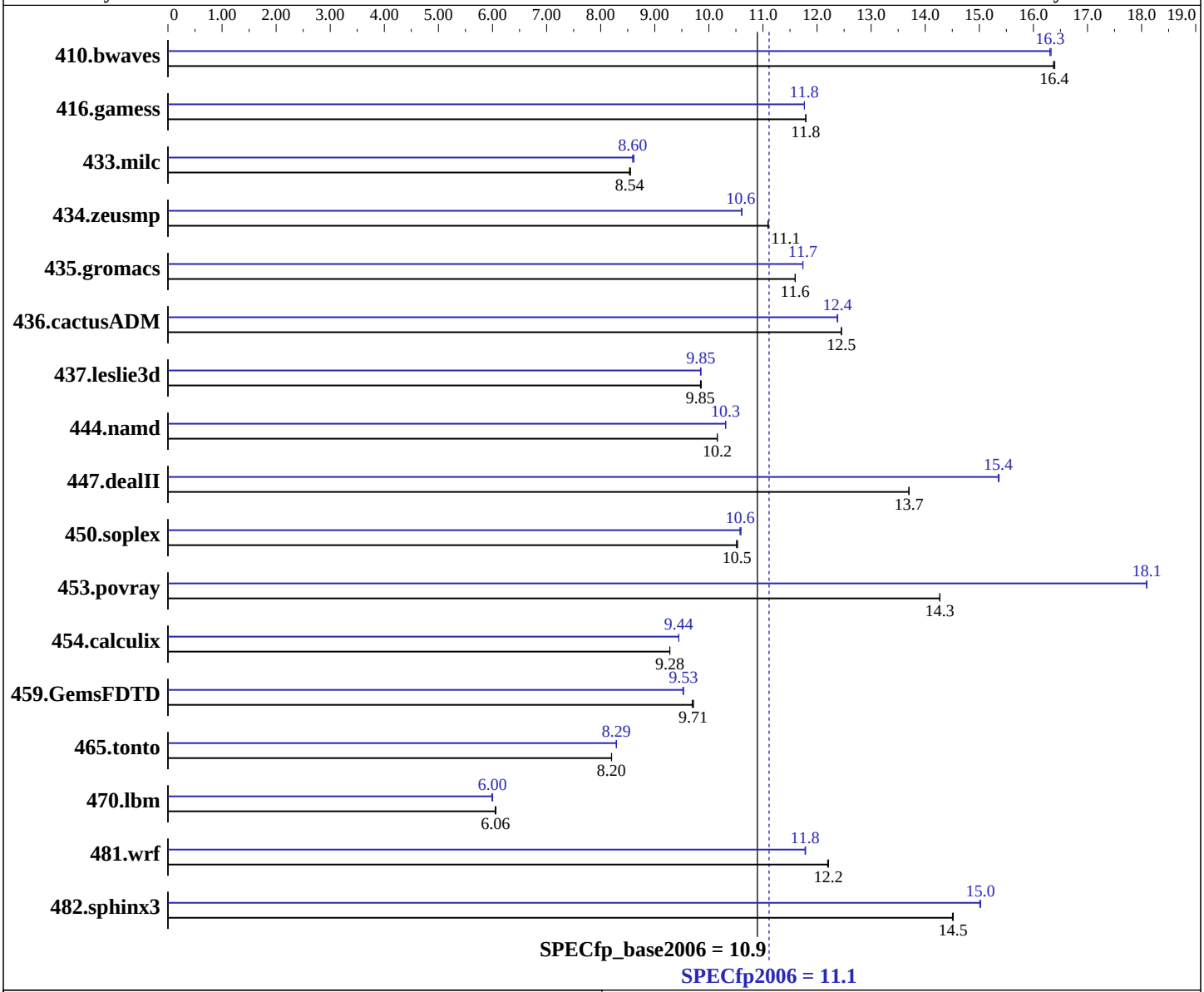
NovaScale B280 (Intel Xeon processor 5130,2.0GHz)

SPECfp®2006 = 11.1

SPECfp_base2006 = 10.9

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 5130
CPU Characteristics:	2.0 GHz, 4MB L2, 1333MHz bus
CPU MHz:	2000
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	829	16.4	830	16.4	**829**	**16.4**	**833**	**16.3**	834	16.3	832	16.3
416.gamess	**1660**	**11.8**	1660	11.8	1660	11.8	1664	11.8	**1664**	**11.8**	1664	11.8
433.milc	1076	8.53	1073	8.55	**1076**	**8.54**	**1068**	**8.60**	1065	8.62	1068	8.59
434.zeusmp	820	11.1	820	11.1	**820**	**11.1**	**858**	**10.6**	858	10.6	858	10.6
435.gromacs	**616**	**11.6**	616	11.6	616	11.6	**608**	**11.7**	608	11.7	608	11.7
436.cactusADM	**960**	**12.5**	960	12.5	960	12.4	**965**	**12.4**	965	12.4	966	12.4
437.leslie3d	**955**	**9.85**	953	9.86	955	9.84	955	9.84	**954**	**9.85**	954	9.85
444.namd	790	10.2	**790**	**10.2**	790	10.2	**778**	**10.3**	778	10.3	778	10.3
447.dealII	835	13.7	835	13.7	**835**	**13.7**	**745**	**15.4**	745	15.4	744	15.4
450.soplex	792	10.5	793	10.5	**793**	**10.5**	**788**	**10.6**	789	10.6	787	10.6
453.povray	373	14.3	373	14.3	**373**	**14.3**	294	18.1	294	18.1	**294**	**18.1**
454.calculix	889	9.28	**889**	**9.28**	889	9.28	874	9.44	873	9.45	**874**	**9.44**
459.GemsFDTD	1095	9.69	**1093**	**9.71**	1092	9.72	1115	9.52	1113	9.53	**1113**	**9.53**
465.tonto	**1200**	**8.20**	1200	8.20	1200	8.20	**1187**	**8.29**	1187	8.29	1186	8.29
470.lbm	**2268**	**6.06**	2266	6.06	2272	6.05	**2290**	**6.00**	2289	6.00	2294	5.99
481.wrf	915	12.2	**915**	**12.2**	916	12.2	948	11.8	**948**	**11.8**	947	11.8
482.sphinx3	**1343**	**14.5**	1342	14.5	1344	14.5	1297	15.0	1299	15.0	**1297**	**15.0**

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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