SPEC® CFP2006 Result

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Bull SAS

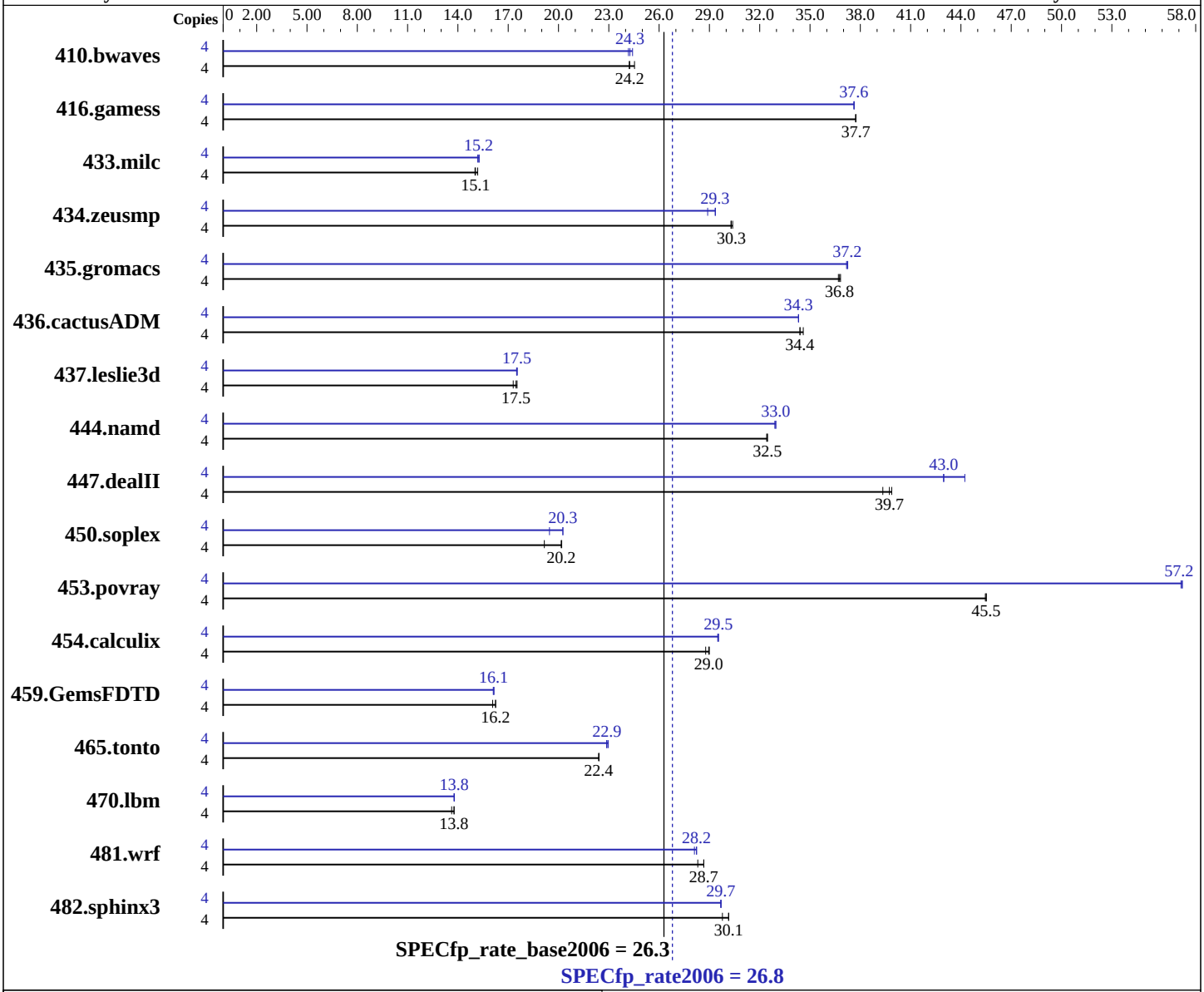
NovaScale B260 (Intel Xeon processor 5110,1.60GHz)

SPECfp®_rate2006 = 26.8

SPECfp_rate_base2006 = 26.3

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:	4 cores, 2 chips, 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	**2242**	**24.2**	2245	24.2	2216	24.5	4	2226	24.4	2249	24.2	**2241**	**24.3**
416.gamess	4	2076	37.7	**2076**	**37.7**	2075	37.7	4	2081	37.6	2082	37.6	**2082**	**37.6**
433.milc	4	**2439**	**15.1**	2445	15.0	2419	15.2	4	**2409**	**15.2**	2420	15.2	2405	15.3
434.zeusmp	4	1202	30.3	**1201**	**30.3**	1198	30.4	4	1260	28.9	1240	29.4	**1241**	**29.3**
435.gromacs	4	778	36.7	**777**	**36.8**	776	36.8	4	768	37.2	**767**	**37.2**	767	37.3
436.cactusADM	4	1389	34.4	**1389**	**34.4**	1382	34.6	4	1393	34.3	**1393**	**34.3**	1393	34.3
437.leslie3d	4	2174	17.3	**2153**	**17.5**	2145	17.5	4	**2147**	**17.5**	2148	17.5	2143	17.5
444.namd	4	990	32.4	**988**	**32.5**	988	32.5	4	975	32.9	**973**	**33.0**	973	33.0
447.dealII	4	1148	39.9	1163	39.3	**1152**	**39.7**	4	1035	44.2	**1065**	**43.0**	1065	43.0
450.soplex	4	1742	19.2	**1655**	**20.2**	1652	20.2	4	1714	19.5	1646	20.3	**1647**	**20.3**
453.povray	4	468	45.5	468	45.5	**468**	**45.5**	4	373	57.1	372	57.2	**372**	**57.2**
454.calculix	4	1138	29.0	**1140**	**29.0**	1147	28.8	4	1119	29.5	**1118**	**29.5**	1117	29.5
459.GemsFDTD	4	2640	16.1	2612	16.2	**2612**	**16.2**	4	**2630**	**16.1**	2635	16.1	2628	16.2
465.tonto	4	**1757**	**22.4**	1757	22.4	1756	22.4	4	1713	23.0	1721	22.9	**1719**	**22.9**
470.lbm	4	4033	13.6	3991	13.8	**3991**	**13.8**	4	**3989**	**13.8**	3988	13.8	3989	13.8
481.wrf	4	1578	28.3	1559	28.7	**1559**	**28.7**	4	1590	28.1	**1583**	**28.2**	1582	28.2
482.sphinx3	4	2618	29.8	2586	30.2	**2587**	**30.1**	4	2625	29.7	**2626**	**29.7**	2627	29.7

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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For other inquiries, please contact webmaster@spec.org.

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