SPEC® CFP2006 Result

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Bull SAS

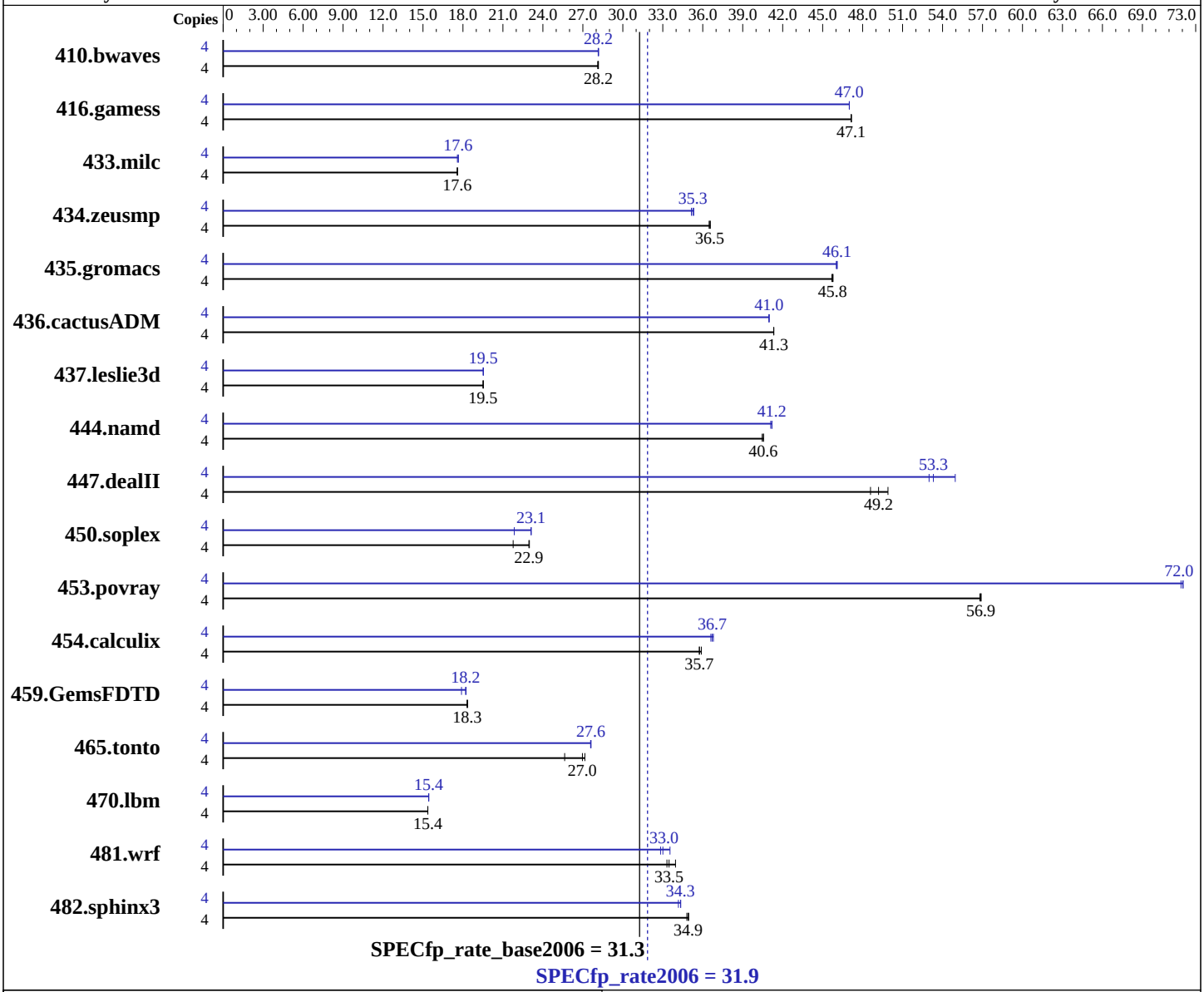
NovaScale B260 (Intel Xeon processor 5130,2.0GHz)

SPECfp®_rate2006 = 31.9

SPECfp_rate_base2006 = 31.3

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 5130
CPU Characteristics:	2.0 GHz, 4MB L2, 1333MHz bus
CPU MHz:	2000
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)
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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1930	28.2	**1930**	**28.2**	1934	28.1	4	1931	28.2	**1930**	**28.2**	1929	28.2
416.gamess	4	**1662**	**47.1**	1661	47.2	1662	47.1	4	1666	47.0	1666	47.0	**1666**	**47.0**
433.milc	4	**2089**	**17.6**	2088	17.6	2090	17.6	4	**2081**	**17.6**	2089	17.6	2080	17.7
434.zeusmp	4	998	36.5	**996**	**36.5**	995	36.6	4	**1032**	**35.3**	1036	35.1	1030	35.3
435.gromacs	4	625	45.7	**624**	**45.8**	624	45.8	4	621	46.0	620	46.1	**620**	**46.1**
436.cactusADM	4	1157	41.3	**1157**	**41.3**	1156	41.3	4	**1167**	**41.0**	1167	41.0	1166	41.0
437.leslie3d	4	1925	19.5	1927	19.5	**1927**	**19.5**	4	1925	19.5	1927	19.5	**1925**	**19.5**
444.namd	4	793	40.5	791	40.6	**791**	**40.6**	4	781	41.1	779	41.2	**779**	**41.2**
447.dealII	4	917	49.9	942	48.6	**930**	**49.2**	4	833	55.0	**858**	**53.3**	864	53.0
450.soplex	4	1533	21.8	1451	23.0	**1454**	**22.9**	4	1527	21.9	**1444**	**23.1**	1442	23.1
453.povray	4	375	56.8	374	56.9	**374**	**56.9**	4	296	71.9	**295**	**72.0**	295	72.1
454.calculix	4	**923**	**35.7**	919	35.9	923	35.7	4	**899**	**36.7**	897	36.8	901	36.6
459.GemsFDTD	4	**2317**	**18.3**	2317	18.3	2313	18.3	4	2327	18.2	2372	17.9	**2333**	**18.2**
465.tonto	4	1450	27.2	**1460**	**27.0**	1535	25.6	4	1425	27.6	**1426**	**27.6**	1427	27.6
470.lbm	4	**3577**	**15.4**	3577	15.4	3578	15.4	4	3562	15.4	**3562**	**15.4**	3562	15.4
481.wrf	4	1341	33.3	1316	34.0	**1335**	**33.5**	4	1361	32.8	1332	33.5	**1354**	**33.0**
482.sphinx3	4	2240	34.8	2231	34.9	**2234**	**34.9**	4	2281	34.2	**2271**	**34.3**	2270	34.3

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

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