SPEC® CFP2006 Result

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Bull SAS

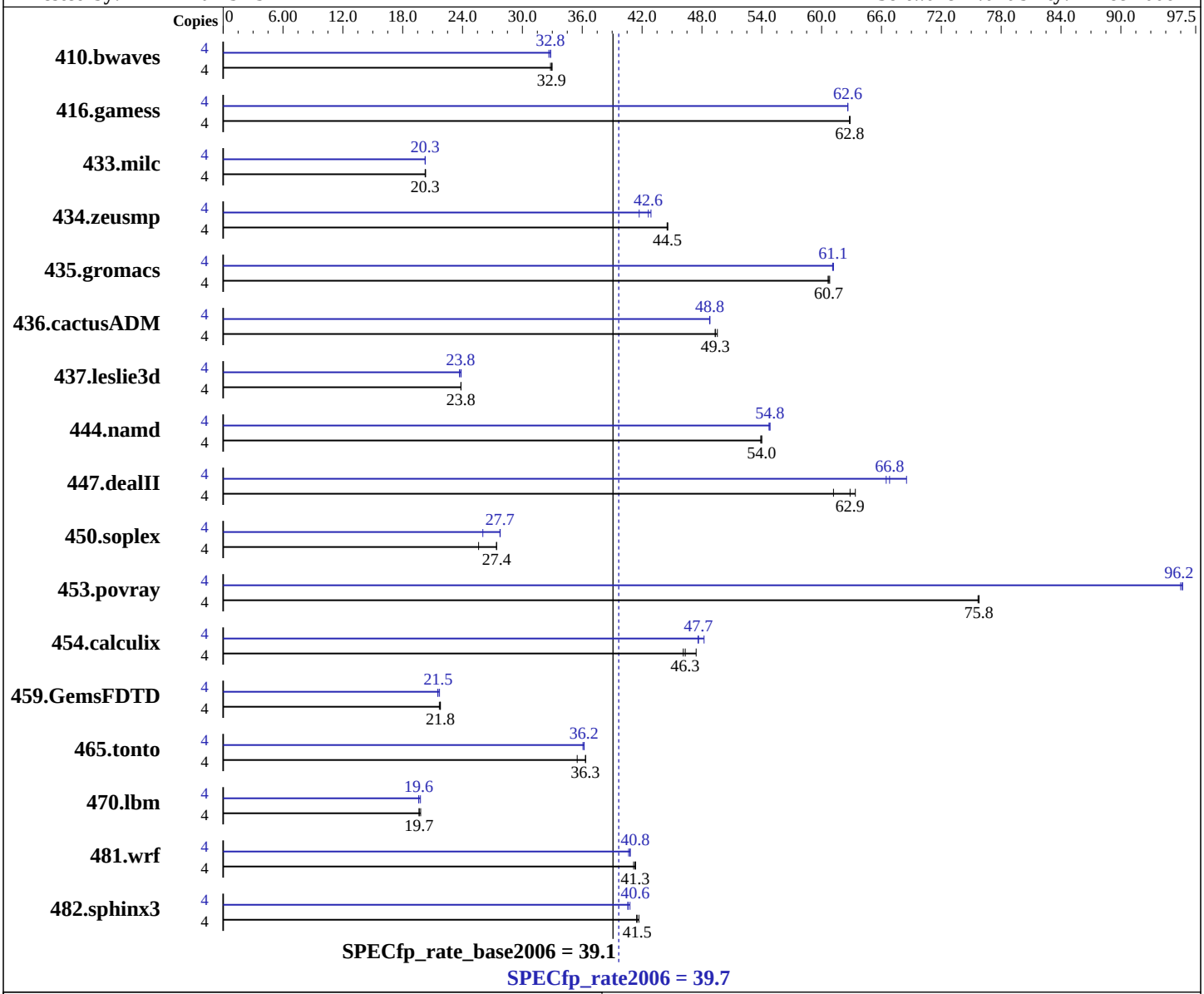
NovaScale B280 (Intel Xeon processor 5150,2.66GHz)

SPECfp®_rate2006 = 39.7

SPECfp_rate_base2006 = 39.1

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:	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 (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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1648	33.0	**1651**	**32.9**	1656	32.8	4	1665	32.6	1656	32.8	**1657**	**32.8**
416.gamess	4	1247	62.8	1246	62.8	**1247**	**62.8**	4	1251	62.6	**1251**	**62.6**	1251	62.6
433.milc	4	1809	20.3	1813	20.3	**1812**	**20.3**	4	**1813**	**20.3**	1812	20.3	1813	20.3
434.zeusmp	4	**817**	**44.5**	818	44.5	817	44.6	4	**854**	**42.6**	873	41.7	849	42.9
435.gromacs	4	471	60.6	470	60.8	**470**	**60.7**	4	**467**	**61.1**	467	61.1	467	61.2
436.cactusADM	4	965	49.5	969	49.3	**969**	**49.3**	4	979	48.8	**980**	**48.8**	980	48.8
437.leslie3d	4	1577	23.8	**1577**	**23.8**	1577	23.8	4	1576	23.9	1587	23.7	**1579**	**23.8**
444.namd	4	595	53.9	594	54.0	**594**	**54.0**	4	586	54.7	585	54.8	**585**	**54.8**
447.dealII	4	722	63.4	**728**	**62.9**	748	61.2	4	688	66.5	**685**	**66.8**	668	68.5
450.soplex	4	1303	25.6	1217	27.4	**1217**	**27.4**	4	1281	26.0	**1202**	**27.7**	1201	27.8
453.povray	4	281	75.7	**281**	**75.8**	281	75.8	4	222	96.0	221	96.2	**221**	**96.2**
454.calculix	4	**712**	**46.3**	696	47.4	715	46.1	4	693	47.6	**692**	**47.7**	684	48.2
459.GemsFDTD	4	1948	21.8	1958	21.7	**1950**	**21.8**	4	1956	21.7	1973	21.5	**1970**	**21.5**
465.tonto	4	1083	36.3	**1084**	**36.3**	1109	35.5	4	1088	36.2	1091	36.1	**1088**	**36.2**
470.lbm	4	2775	19.8	**2797**	**19.7**	2798	19.6	4	2778	19.8	2803	19.6	**2802**	**19.6**
481.wrf	4	1086	41.1	1080	41.4	**1082**	**41.3**	4	1099	40.6	**1096**	**40.8**	1095	40.8
482.sphinx3	4	1881	41.5	1870	41.7	**1878**	**41.5**	4	1922	40.6	1911	40.8	**1920**	**40.6**

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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