SPEC® CFP2006 Result

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Bull SAS

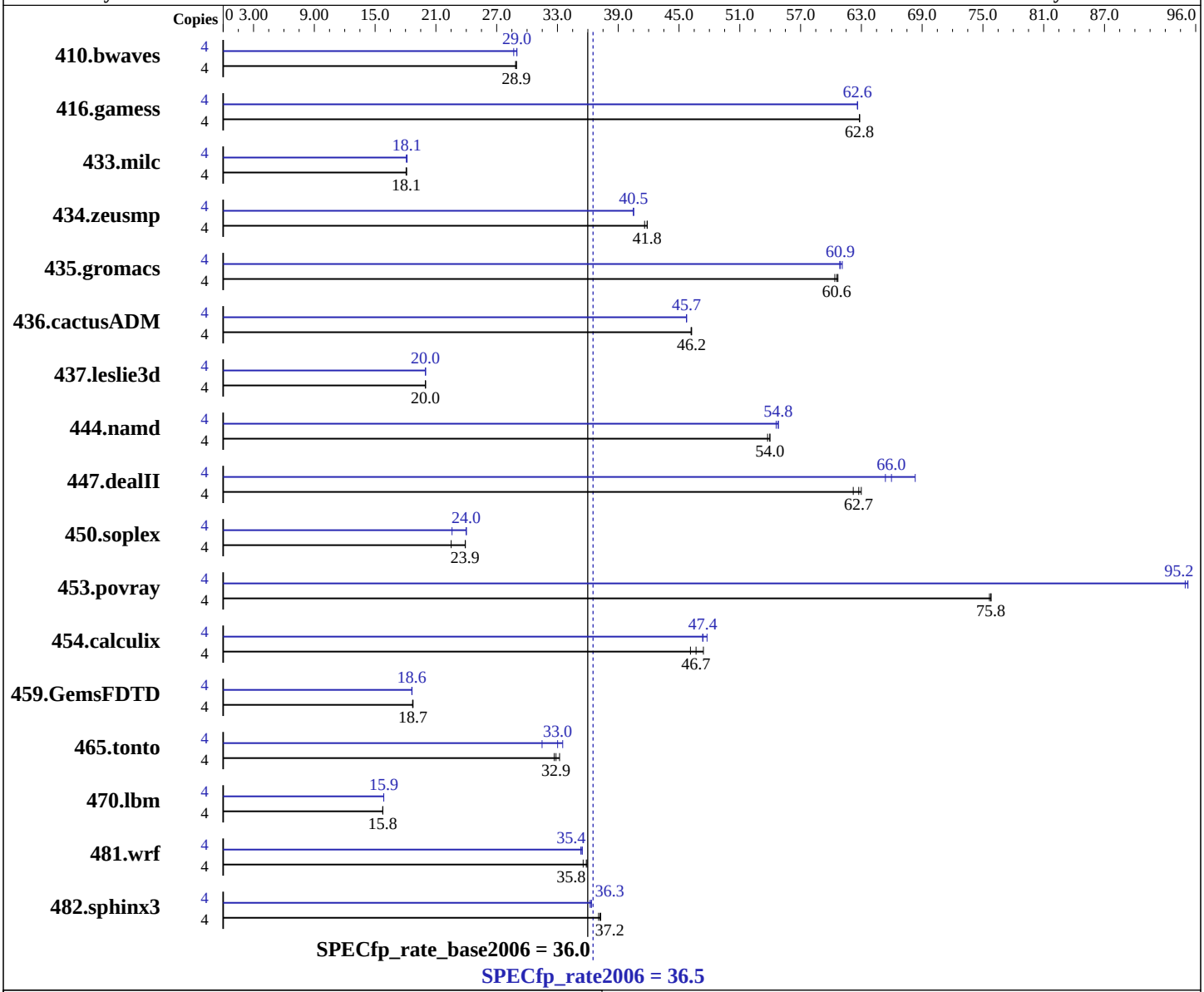
NovaScale B260 (Intel Xeon processor 5150,2.66GHz)

SPECfp®_rate2006 = 36.5

SPECfp_rate_base2006 = 36.0

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:	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	1883	28.9	1878	28.9	**1878**	**28.9**	4	**1875**	**29.0**	1874	29.0	1895	28.7
416.gamess	4	1247	62.8	1247	62.8	**1247**	**62.8**	4	1251	62.6	**1250**	**62.6**	1250	62.6
433.milc	4	2027	18.1	2034	18.1	**2030**	**18.1**	4	2022	18.2	2031	18.1	**2025**	**18.1**
434.zeusmp	4	875	41.6	869	41.9	**870**	**41.8**	4	898	40.5	**899**	**40.5**	899	40.5
435.gromacs	4	473	60.4	471	60.7	**471**	**60.6**	4	469	60.9	467	61.1	**469**	**60.9**
436.cactusADM	4	1035	46.2	1034	46.2	**1034**	**46.2**	4	**1045**	**45.7**	1045	45.7	1045	45.7
437.leslie3d	4	1882	20.0	**1883**	**20.0**	1883	20.0	4	1883	20.0	**1883**	**20.0**	1882	20.0
444.namd	4	597	53.7	594	54.0	**594**	**54.0**	4	588	54.6	585	54.8	**585**	**54.8**
447.dealII	4	736	62.2	726	63.0	**729**	**62.7**	4	**694**	**66.0**	670	68.3	700	65.4
450.soplex	4	1482	22.5	1395	23.9	**1396**	**23.9**	4	1477	22.6	1389	24.0	**1391**	**24.0**
453.povray	4	281	75.6	**281**	**75.8**	281	75.8	4	224	95.0	**223**	**95.2**	223	95.2
454.calculix	4	**707**	**46.7**	696	47.4	715	46.1	4	697	47.3	**697**	**47.4**	691	47.8
459.GemsFDTD	4	2270	18.7	2265	18.7	**2265**	**18.7**	4	2276	18.6	2279	18.6	**2277**	**18.6**
465.tonto	4	1185	33.2	1204	32.7	**1198**	**32.9**	4	1250	31.5	1174	33.5	**1192**	**33.0**
470.lbm	4	**3488**	**15.8**	3488	15.8	3486	15.8	4	**3467**	**15.9**	3468	15.8	3466	15.9
481.wrf	4	1257	35.5	1244	35.9	**1246**	**35.8**	4	1265	35.3	1261	35.4	**1261**	**35.4**
482.sphinx3	4	2104	37.1	2092	37.3	**2096**	**37.2**	4	2152	36.2	2144	36.4	**2145**	**36.3**

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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