SPEC® CFP2006 Result

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Bull SAS

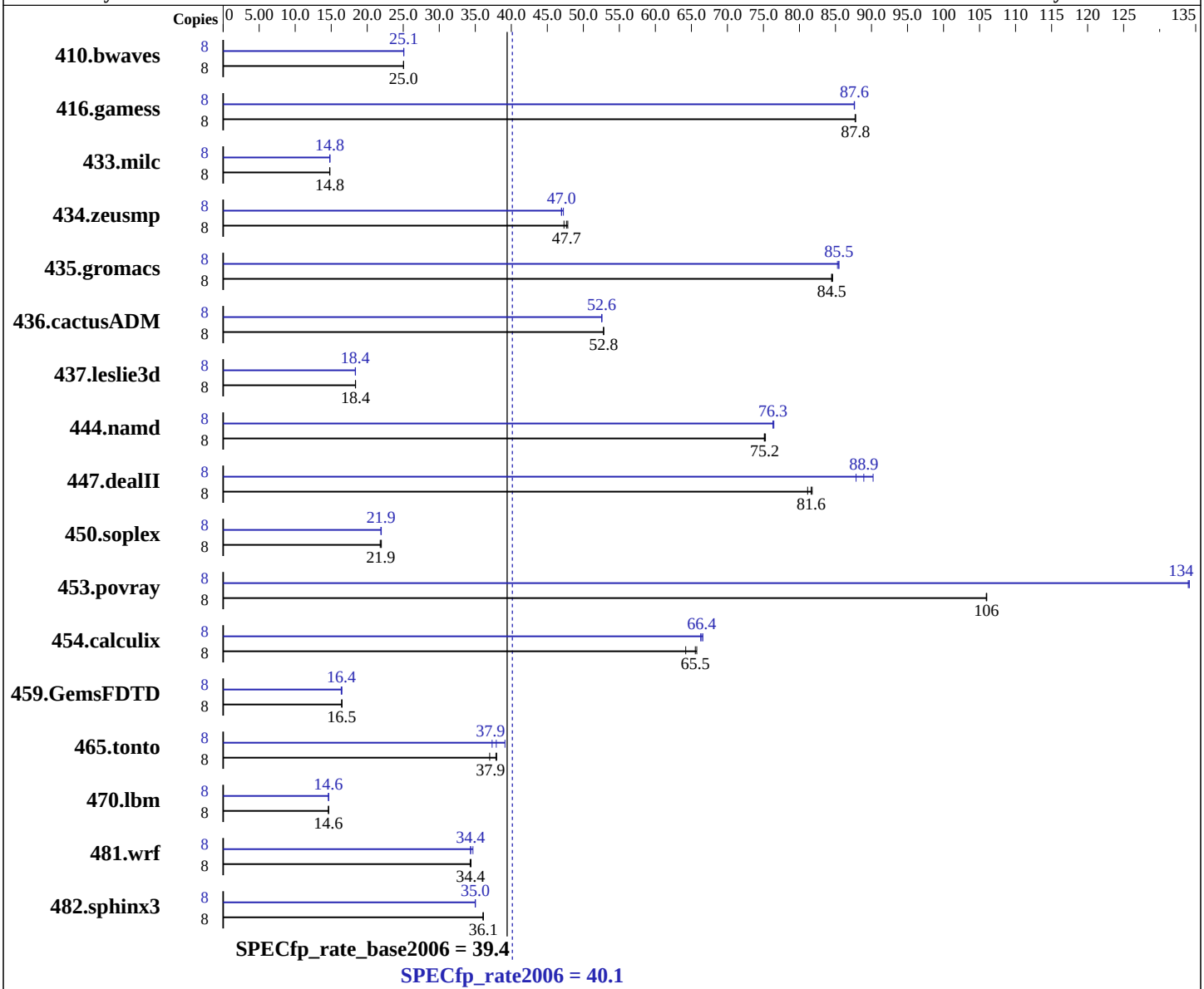
NovaScale B260 (Intel Xeon processor E5320,1.86GHz)

SPECfp®_rate2006 = 40.1

SPECfp_rate_base2006 = 39.4

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 E5320
CPU Characteristics:	1.86 GHz, 8MB L2, 1066MHz bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1 to 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

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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	8	4340	25.0	**4341**	**25.0**	4341	25.0	8	**4338**	**25.1**	4338	25.1	4333	25.1
416.gamess	8	1786	87.7	**1784**	**87.8**	1784	87.8	8	**1788**	**87.6**	1788	87.6	1787	87.6
433.milc	8	**4965**	**14.8**	4954	14.8	4968	14.8	8	**4956**	**14.8**	4954	14.8	4966	14.8
434.zeusmp	8	1539	47.3	**1527**	**47.7**	1522	47.8	8	1541	47.2	1550	47.0	**1550**	**47.0**
435.gromacs	8	675	84.6	676	84.5	**676**	**84.5**	8	670	85.3	**668**	**85.5**	668	85.5
436.cactusADM	8	**1810**	**52.8**	1810	52.8	1811	52.8	8	1819	52.6	**1819**	**52.6**	1819	52.5
437.leslie3d	8	4096	18.4	4091	18.4	**4094**	**18.4**	8	4093	18.4	**4096**	**18.4**	4100	18.3
444.namd	8	852	75.3	854	75.1	**854**	**75.2**	8	841	76.3	**840**	**76.3**	839	76.4
447.dealII	8	1119	81.8	1128	81.1	**1121**	**81.6**	8	1014	90.2	**1029**	**88.9**	1042	87.9
450.soplex	8	3061	21.8	3038	22.0	**3048**	**21.9**	8	**3044**	**21.9**	3039	22.0	3046	21.9
453.povray	8	402	106	402	106	**402**	**106**	8	**317**	**134**	317	134	318	134
454.calculix	8	1028	64.2	1004	65.7	**1007**	**65.5**	8	996	66.3	**994**	**66.4**	991	66.6
459.GemsFDTD	8	**5154**	**16.5**	5156	16.5	5149	16.5	8	5179	16.4	5148	16.5	**5172**	**16.4**
465.tonto	8	2128	37.0	**2079**	**37.9**	2073	38.0	8	2109	37.3	**2076**	**37.9**	2012	39.1
470.lbm	8	7509	14.6	7517	14.6	**7517**	**14.6**	8	7507	14.6	**7514**	**14.6**	7516	14.6
481.wrf	8	2597	34.4	2606	34.3	**2601**	**34.4**	8	2602	34.3	2577	34.7	**2600**	**34.4**
482.sphinx3	8	4317	36.1	4323	36.1	**4318**	**36.1**	8	**4456**	**35.0**	4457	35.0	4451	35.0

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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