SPEC® CFP2006 Result

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Bull SAS

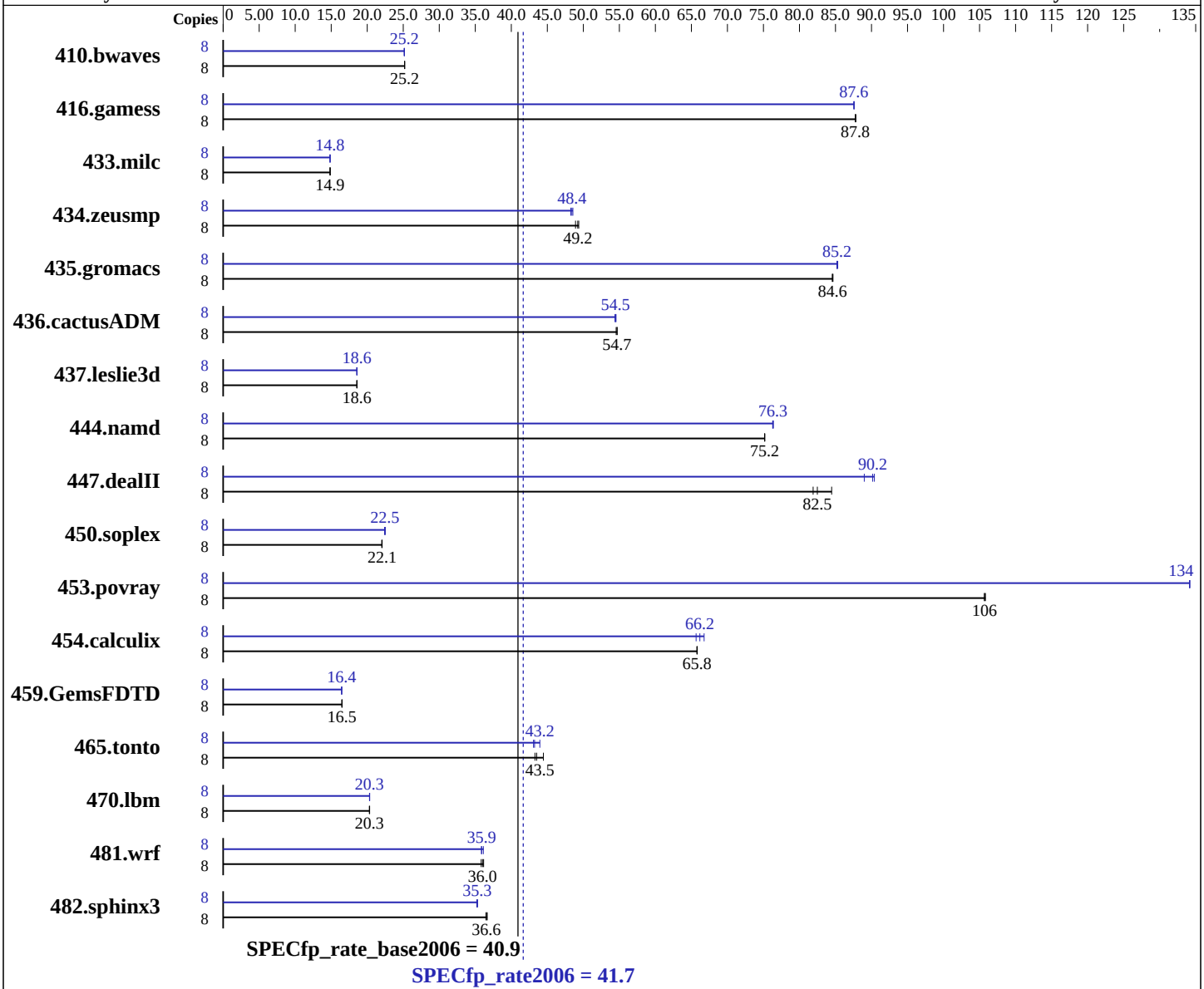
NovaScale B280 (Intel Xeon processor E5320,1.86GHz)

SPECfp®_rate2006 = 41.7

SPECfp_rate_base2006 = 40.9

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

Test date: Feb-2007
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 (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	8	4319	25.2	4312	25.2	**4317**	**25.2**	8	4329	25.1	**4319**	**25.2**	4319	25.2
416.gamess	8	1784	87.8	**1785**	**87.8**	1785	87.7	8	**1789**	**87.6**	1789	87.5	1788	87.6
433.milc	8	**4945**	**14.9**	4943	14.9	4953	14.8	8	4956	14.8	4941	14.9	**4950**	**14.8**
434.zeusmp	8	1475	49.4	1488	48.9	**1479**	**49.2**	8	**1504**	**48.4**	1500	48.5	1509	48.3
435.gromacs	8	**675**	**84.6**	675	84.6	675	84.7	8	**670**	**85.2**	670	85.3	670	85.2
436.cactusADM	8	1748	54.7	**1748**	**54.7**	1752	54.6	8	1758	54.4	1753	54.5	**1755**	**54.5**
437.leslie3d	8	**4050**	**18.6**	4048	18.6	4052	18.6	8	4048	18.6	4052	18.6	**4051**	**18.6**
444.namd	8	854	75.2	853	75.2	**854**	**75.2**	8	841	76.3	840	76.4	**841**	**76.3**
447.dealII	8	1118	81.9	**1110**	**82.5**	1083	84.5	8	1012	90.4	**1015**	**90.2**	1028	89.0
450.soplex	8	3023	22.1	**3025**	**22.1**	3031	22.0	8	2978	22.4	2965	22.5	**2969**	**22.5**
453.povray	8	403	106	402	106	**403**	**106**	8	**317**	**134**	317	134	317	134
454.calculix	8	1004	65.8	1003	65.8	**1003**	**65.8**	8	989	66.8	1005	65.7	**997**	**66.2**
459.GemsFDTD	8	**5146**	**16.5**	5143	16.5	5150	16.5	8	5153	16.5	5164	16.4	**5162**	**16.4**
465.tonto	8	1819	43.3	1771	44.5	**1809**	**43.5**	8	1827	43.1	**1821**	**43.2**	1791	44.0
470.lbm	8	5414	20.3	**5411**	**20.3**	5405	20.3	8	**5409**	**20.3**	5403	20.3	5410	20.3
481.wrf	8	**2482**	**36.0**	2471	36.2	2495	35.8	8	**2490**	**35.9**	2492	35.9	2474	36.1
482.sphinx3	8	**4264**	**36.6**	4253	36.7	4275	36.5	8	4429	35.2	4414	35.3	**4423**	**35.3**

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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