SPEC® CFP2006 Result

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Bull SAS

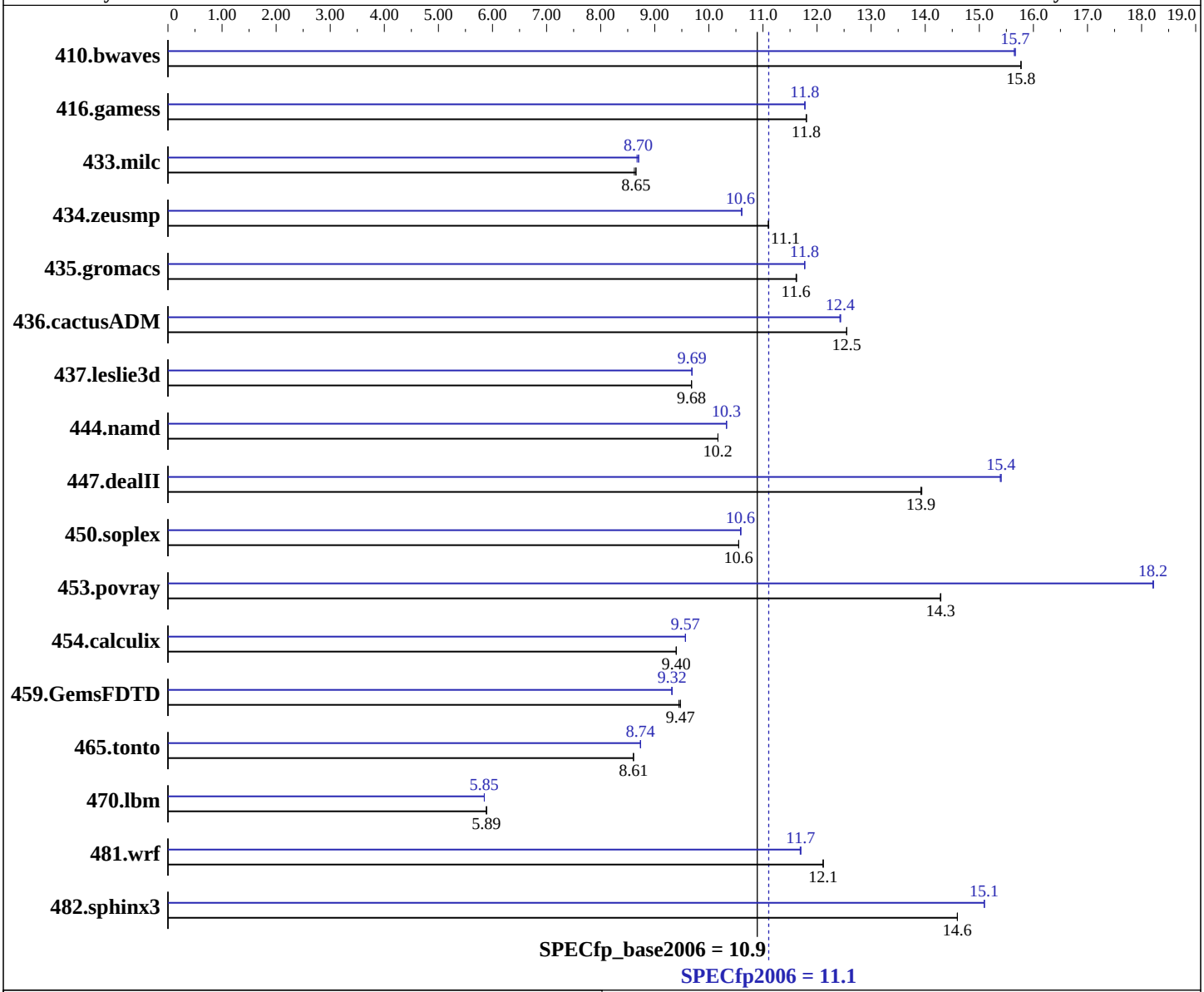
NovaScale B260 (Intel Xeon processor E5335,2.00GHz)

SPECfp®2006 = 11.1

SPECfp_base2006 = 10.9

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 E5335
CPU Characteristics:	2.00 GHz, 8MB L2, 1333MHz bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	862	15.8	862	15.8	**862**	**15.8**	868	15.7	**868**	**15.7**	869	15.6
416.gamess	1659	11.8	1659	11.8	**1659**	**11.8**	1663	11.8	1663	11.8	**1663**	**11.8**
433.milc	**1061**	**8.65**	1065	8.62	1061	8.65	1059	8.67	1055	8.70	**1055**	**8.70**
434.zeusmp	820	11.1	820	11.1	**820**	**11.1**	858	10.6	858	10.6	**858**	**10.6**
435.gromacs	**615**	**11.6**	614	11.6	615	11.6	607	11.8	607	11.8	**607**	**11.8**
436.cactusADM	**952**	**12.5**	952	12.5	952	12.5	962	12.4	961	12.4	**961**	**12.4**
437.leslie3d	971	9.68	971	9.68	**971**	**9.68**	970	9.69	**970**	**9.69**	970	9.69
444.namd	**789**	**10.2**	789	10.2	789	10.2	777	10.3	777	10.3	**777**	**10.3**
447.dealII	821	13.9	822	13.9	**822**	**13.9**	743	15.4	743	15.4	**743**	**15.4**
450.soplex	790	10.6	790	10.6	**790**	**10.6**	787	10.6	788	10.6	**787**	**10.6**
453.povray	373	14.3	372	14.3	**372**	**14.3**	**292**	**18.2**	292	18.2	292	18.2
454.calculix	878	9.40	878	9.40	**878**	**9.40**	863	9.57	862	9.57	**862**	**9.57**
459.GemsFDTD	1123	9.45	1120	9.47	**1120**	**9.47**	1139	9.31	1139	9.32	**1139**	**9.32**
465.tonto	1143	8.61	1144	8.61	**1143**	**8.61**	**1126**	**8.74**	1126	8.74	1126	8.74
470.lbm	**2334**	**5.89**	2331	5.89	2334	5.89	**2349**	**5.85**	2349	5.85	2349	5.85
481.wrf	922	12.1	**922**	**12.1**	922	12.1	**955**	**11.7**	955	11.7	956	11.7
482.sphinx3	1335	14.6	**1335**	**14.6**	1336	14.6	1291	15.1	1291	15.1	**1291**	**15.1**

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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