SPEC® CFP2006 Result

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Bull SAS

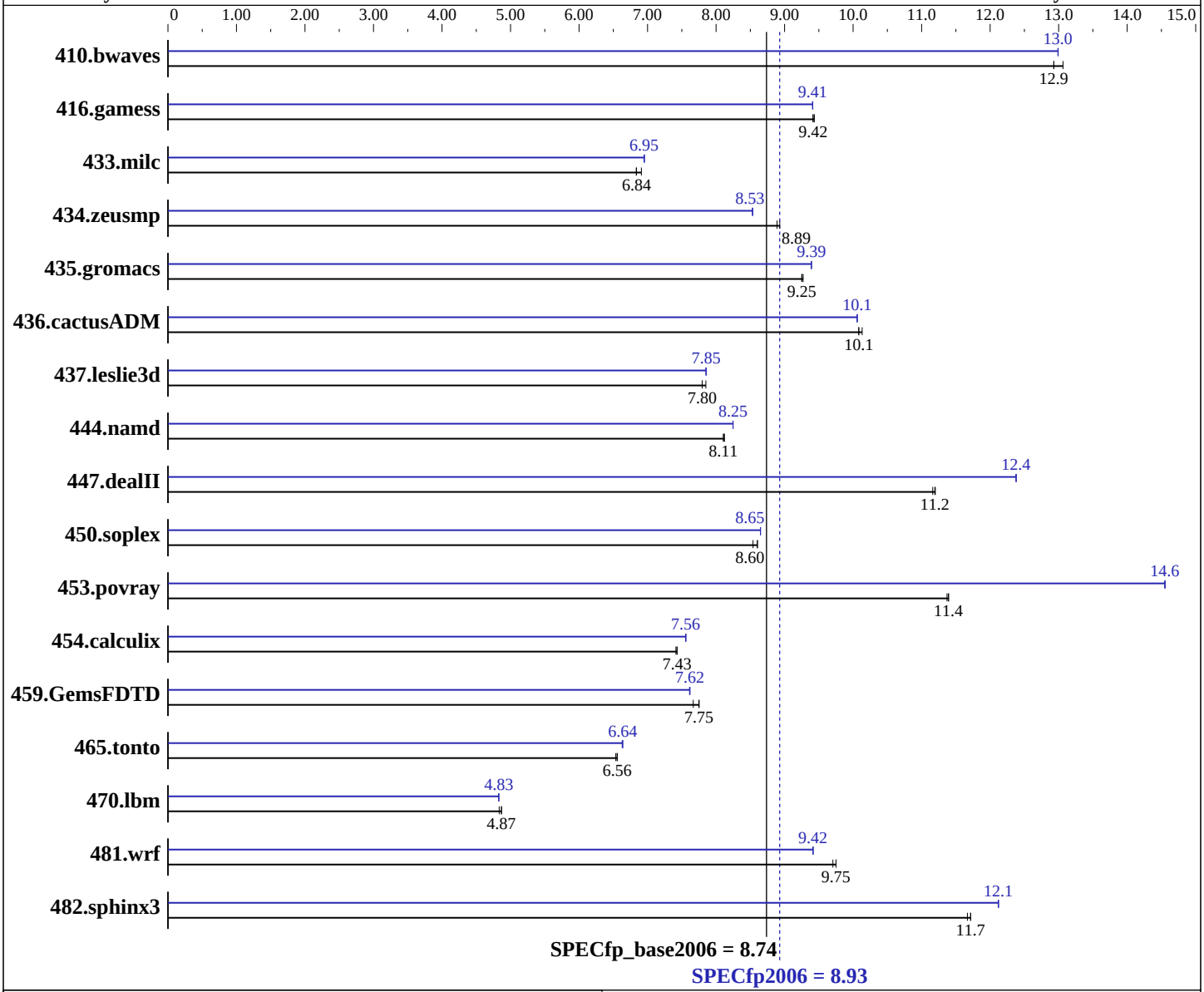
NovaScale B260 (Intel Xeon processor E5310,1.60GHz)

SPECfp®2006 = 8.93

SPECfp_base2006 = 8.74

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

Test date: Apr-2007
Hardware Availability: Jan-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon E5310
CPU Characteristics:	1.60 GHz, 8 MB L2, 1066 MHz bus
CPU MHz:	1600
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 (4x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x73 GB SAS, 10000 RPM
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	**1051**	**12.9**	1051	12.9	1040	13.1	1046	13.0	1046	13.0	**1046**	**13.0**
416.gamess	**2079**	**9.42**	2080	9.42	2075	9.43	**2081**	**9.41**	2080	9.41	2081	9.41
433.milc	1343	6.83	**1342**	**6.84**	1329	6.91	1320	6.95	1321	6.95	**1321**	**6.95**
434.zeusmp	**1024**	**8.89**	1024	8.89	1019	8.93	1066	8.53	**1066**	**8.53**	1066	8.53
435.gromacs	**772**	**9.25**	772	9.25	770	9.27	760	9.39	**760**	**9.39**	760	9.39
436.cactusADM	**1185**	**10.1**	1185	10.1	1179	10.1	1188	10.1	1188	10.1	**1188**	**10.1**
437.leslie3d	**1206**	**7.80**	1206	7.80	1197	7.85	1197	7.85	**1197**	**7.85**	1197	7.85
444.namd	989	8.11	**989**	**8.11**	987	8.12	**972**	**8.25**	972	8.25	972	8.25
447.dealII	1025	11.2	**1022**	**11.2**	1021	11.2	**924**	**12.4**	924	12.4	924	12.4
450.soplex	977	8.54	969	8.60	**970**	**8.60**	964	8.65	**964**	**8.65**	964	8.65
453.povray	468	11.4	467	11.4	**467**	**11.4**	366	14.5	**366**	**14.6**	366	14.6
454.calculix	1113	7.41	1110	7.43	**1110**	**7.43**	1092	7.56	1091	7.56	**1092**	**7.56**
459.GemsFDTD	1384	7.67	1369	7.75	**1369**	**7.75**	1394	7.61	1393	7.62	**1393**	**7.62**
465.tonto	1505	6.54	**1501**	**6.56**	1501	6.56	1484	6.63	**1483**	**6.64**	1482	6.64
470.lbm	2842	4.83	2823	4.87	**2823**	**4.87**	**2846**	**4.83**	2846	4.83	2846	4.83
481.wrf	1151	9.71	1146	9.75	**1146**	**9.75**	1187	9.41	**1186**	**9.42**	1186	9.42
482.sphinx3	1670	11.7	1664	11.7	**1664**	**11.7**	1608	12.1	**1608**	**12.1**	1608	12.1

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

```
/NUMPROC=1 flag was added to boot.ini to invoke
uniprocessor environment
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

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Base Compiler Invocation (Continued)

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`
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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