



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

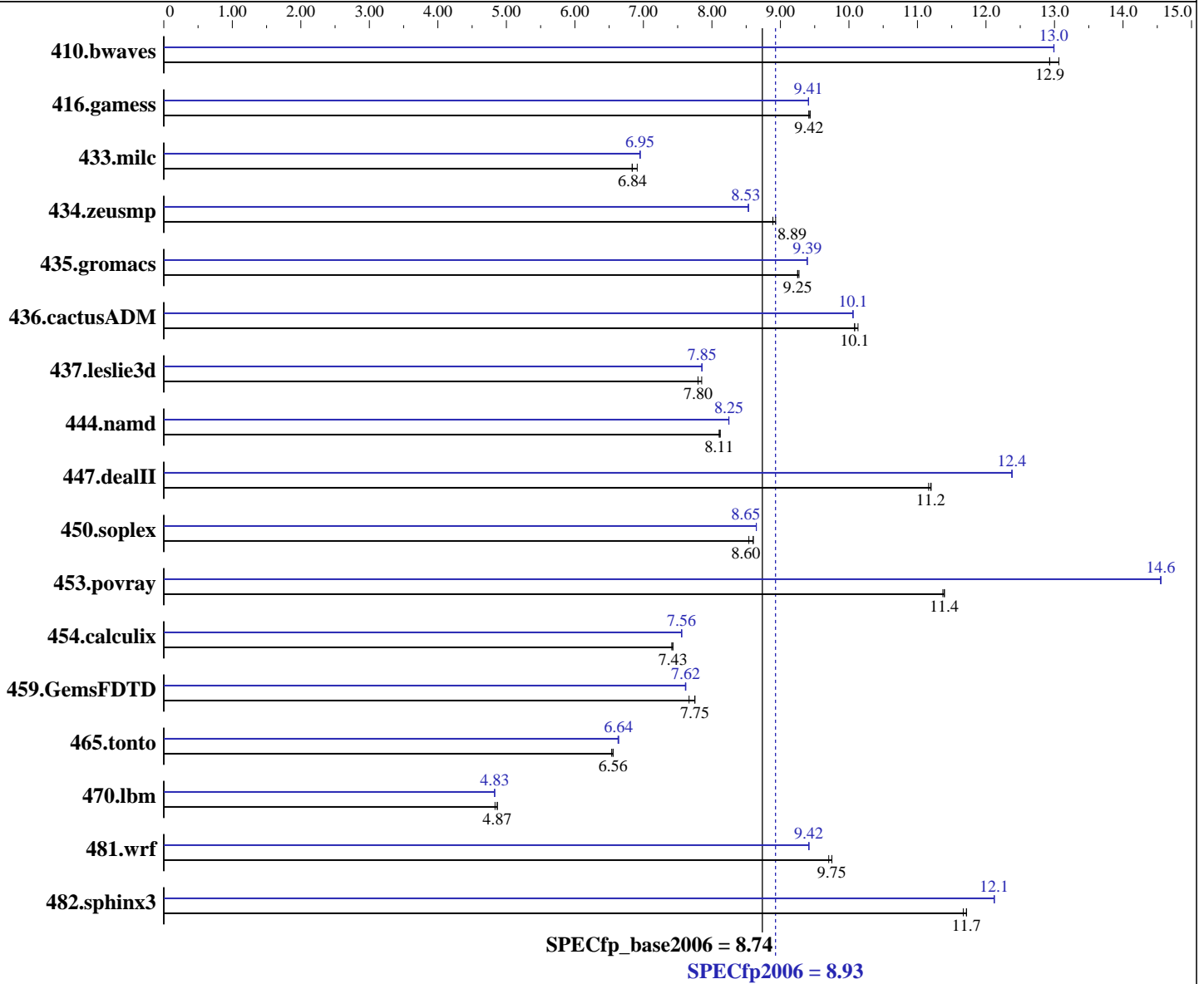
Test sponsor: Bull SAS

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 (shIW32M.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



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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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