



SPEC® CFP2006 Result

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Bull SAS

SPECfp®2006 = 11.1

NovaScale B280 (Intel Xeon processor 5130,2.0GHz)

SPECfp_base2006 = 10.9

CPU2006 license: 20

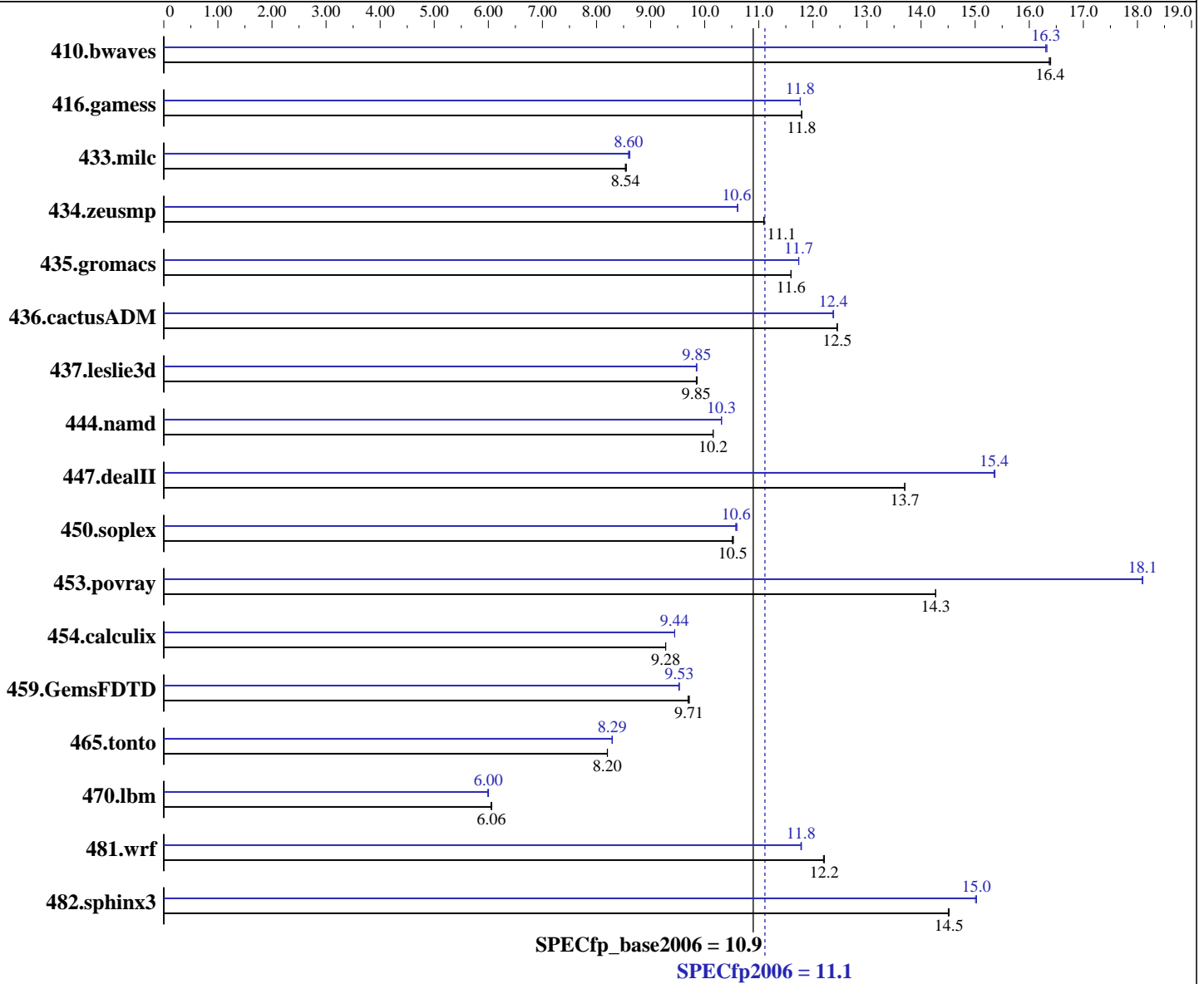
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Dec-2006

Hardware Availability: Jan-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 2.0 GHz, 4MB L2, 1333MHz bus
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 to 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip

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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 (shIW32M.lib)

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	829	16.4	830	16.4	829	16.4	833	16.3	834	16.3	832	16.3
416.gamess	1660	11.8	1660	11.8	1660	11.8	1664	11.8	1664	11.8	1664	11.8
433.milc	1076	8.53	1073	8.55	1076	8.54	1068	8.60	1065	8.62	1068	8.59
434.zeusmp	820	11.1	820	11.1	820	11.1	858	10.6	858	10.6	858	10.6
435.gromacs	616	11.6	616	11.6	616	11.6	608	11.7	608	11.7	608	11.7
436.cactusADM	960	12.5	960	12.5	960	12.4	965	12.4	965	12.4	966	12.4
437.leslie3d	955	9.85	953	9.86	955	9.84	955	9.84	954	9.85	954	9.85
444.namd	790	10.2	790	10.2	790	10.2	778	10.3	778	10.3	778	10.3
447.dealII	835	13.7	835	13.7	835	13.7	745	15.4	745	15.4	744	15.4
450.soplex	792	10.5	793	10.5	793	10.5	788	10.6	789	10.6	787	10.6
453.povray	373	14.3	373	14.3	373	14.3	294	18.1	294	18.1	294	18.1
454.calculix	889	9.28	889	9.28	889	9.28	874	9.44	873	9.45	874	9.44
459.GemsFDTD	1095	9.69	1093	9.71	1092	9.72	1115	9.52	1113	9.53	1113	9.53
465.tonto	1200	8.20	1200	8.20	1200	8.20	1187	8.29	1187	8.29	1186	8.29
470.lbm	2268	6.06	2266	6.06	2272	6.05	2290	6.00	2289	6.00	2294	5.99
481.wrf	915	12.2	915	12.2	916	12.2	948	11.8	948	11.8	947	11.8
482.sphinx3	1343	14.5	1342	14.5	1344	14.5	1297	15.0	1299	15.0	1297	15.0

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

General Notes

Other Configuration 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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