



SPEC® CFP2006 Result

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Bull SAS

NovaScale T810 (Intel Xeon processor 3060,2.40GHz)

SPECfp®2006 = 14.3

SPECfp_base2006 = 14.0

CPU2006 license: 20

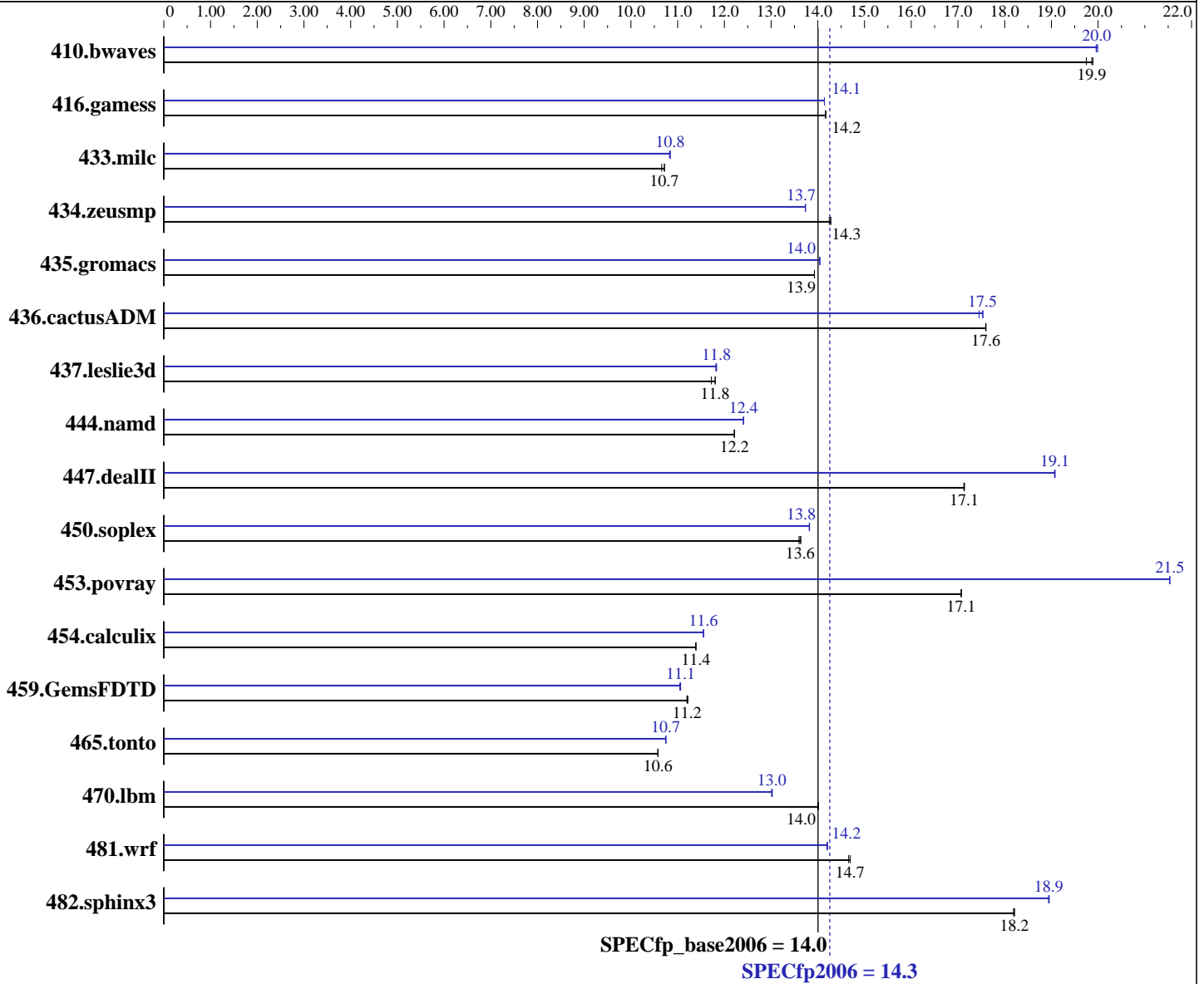
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 3060
 CPU Characteristics: 2.40 GHz, 4MB L2, 1066MHz bus
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 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 X64 Edition Service Pack 1
 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, PC2-5300E 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	688	19.7	683	19.9	684	19.9	681	20.0	680	20.0	681	20.0
416.gamess	1382	14.2	1382	14.2	1382	14.2	1385	14.1	1385	14.1	1385	14.1
433.milc	861	10.7	857	10.7	856	10.7	848	10.8	847	10.8	847	10.8
434.zeusmp	639	14.2	637	14.3	637	14.3	663	13.7	663	13.7	662	13.7
435.gromacs	513	13.9	513	13.9	513	13.9	508	14.0	508	14.0	509	14.0
436.cactusADM	679	17.6	679	17.6	679	17.6	685	17.5	681	17.5	682	17.5
437.leslie3d	802	11.7	796	11.8	796	11.8	795	11.8	795	11.8	794	11.8
444.namd	657	12.2	657	12.2	657	12.2	646	12.4	646	12.4	646	12.4
447.dealII	668	17.1	668	17.1	668	17.1	600	19.1	600	19.1	600	19.1
450.soplex	613	13.6	612	13.6	612	13.6	603	13.8	603	13.8	604	13.8
453.povray	312	17.1	312	17.1	312	17.1	247	21.5	247	21.5	247	21.5
454.calculix	724	11.4	724	11.4	724	11.4	714	11.6	714	11.6	714	11.6
459.GemsFDTD	946	11.2	947	11.2	947	11.2	961	11.0	959	11.1	959	11.1
465.tonto	930	10.6	930	10.6	930	10.6	916	10.7	916	10.7	915	10.7
470.lbm	980	14.0	982	14.0	980	14.0	1056	13.0	1055	13.0	1055	13.0
481.wrf	762	14.7	760	14.7	760	14.7	787	14.2	786	14.2	786	14.2
482.sphinx3	1072	18.2	1070	18.2	1070	18.2	1029	18.9	1028	19.0	1029	18.9

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



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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

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Peak Compiler Invocation (Continued)

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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