



SPEC® CFP2006 Result

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Bull SAS

NovaScale T860
(Intel Xeon processor E5310,1.60GHz)

SPECfp®2006 = 9.83

SPECfp_base2006 = 9.67

CPU2006 license: 20

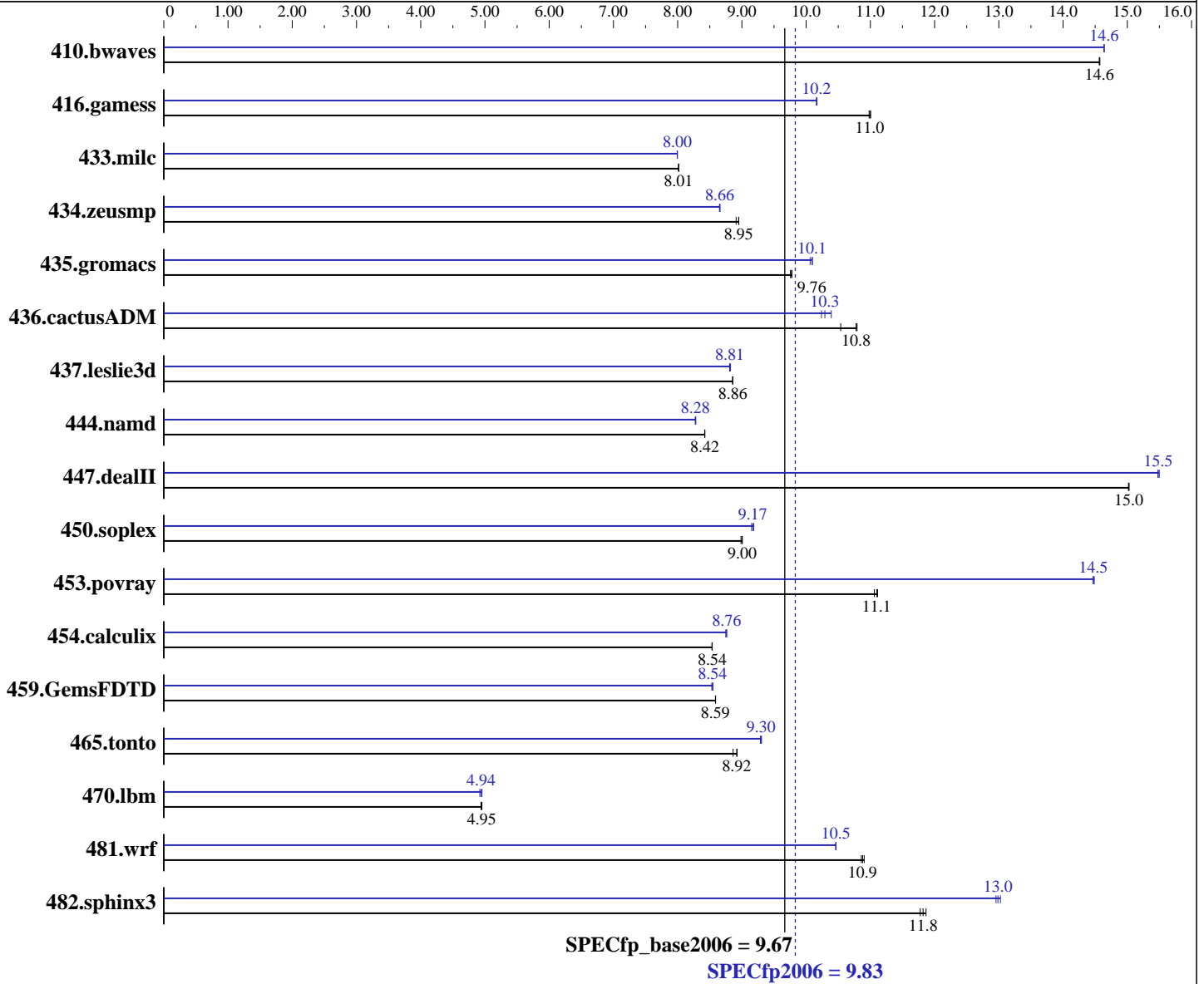
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5310
 CPU Characteristics: 1.60 GHz, 8 MB L2, 1066 MHz system 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: SuSE Linux Enterprise Server 10 (EM64T) kernel 2.6.16.21-0.8-smp
 Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1
 Package ID l_cc_c_9.1.045 Build no 20061101
 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1
 Package ID l_fc_c_9.1.040 Build no 20061101
 Auto Parallel: No

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L3 Cache: None
Other Cache: None
Memory: 24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x147 GB SAS, 15000 RPM
Other Hardware: None

File System: ext2
System State: Multi-user run level 3
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	933	14.6	933	14.6	933	14.6	928	14.6	928	14.6	928	14.6
416.gamess	1781	11.0	1783	11.0	1779	11.0	1927	10.2	1925	10.2	1927	10.2
433.milc	1145	8.02	1145	8.01	1146	8.01	1148	8.00	1148	8.00	1148	7.99
434.zeusmp	1017	8.95	1021	8.91	1017	8.95	1051	8.66	1052	8.65	1051	8.66
435.gromacs	732	9.76	732	9.76	730	9.78	707	10.1	708	10.1	710	10.1
436.cactusADM	1134	10.5	1107	10.8	1109	10.8	1167	10.2	1161	10.3	1150	10.4
437.leslie3d	1061	8.86	1061	8.86	1061	8.86	1065	8.82	1067	8.81	1067	8.81
444.namd	952	8.42	952	8.42	952	8.42	968	8.28	969	8.27	969	8.28
447.dealII	761	15.0	761	15.0	762	15.0	739	15.5	738	15.5	739	15.5
450.soplex	926	9.00	926	9.01	928	8.99	910	9.17	908	9.18	911	9.15
453.povray	479	11.1	481	11.1	479	11.1	368	14.5	368	14.5	367	14.5
454.calculix	966	8.54	966	8.54	967	8.53	942	8.76	942	8.76	943	8.75
459.GemsFDTD	1235	8.59	1235	8.59	1235	8.59	1244	8.53	1242	8.54	1241	8.55
465.tonto	1102	8.93	1103	8.92	1110	8.86	1058	9.30	1059	9.29	1057	9.31
470.lbm	2774	4.95	2777	4.95	2782	4.94	2773	4.95	2781	4.94	2793	4.92
481.wrf	1029	10.9	1027	10.9	1024	10.9	1068	10.5	1067	10.5	1068	10.5
482.sphinx3	1642	11.9	1655	11.8	1649	11.8	1504	13.0	1496	13.0	1501	13.0

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

Operating System Notes

Environment stack size set to 'unlimited'

system was booted uniprocessor by setting "maxcpus=0"
kernel parameter in menu.lst
/usr/bin/taskset utility used to bind CPU(s) to processes

Base Compiler Invocation

C benchmarks:
icc

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Base Compiler Invocation (Continued)

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
 416.gamess: -DSPEC_CPU_LP64
 433.milc: -DSPEC_CPU_LP64
 434.zeusmp: -DSPEC_CPU_LP64
 435.gromacs: -DSPEC_CPU_LP64 -nofor_main
 436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
 437.leslie3d: -DSPEC_CPU_LP64
 444.namd: -DSPEC_CPU_LP64
 447.dealII: -DSPEC_CPU_LP64
 450.soplex: -DSPEC_CPU_LP64
 453.povray: -DSPEC_CPU_LP64
 454.calculix: -DSPEC_CPU_LP64 -nofor_main
 459.GemsFDTD: -DSPEC_CPU_LP64
 465.tonto: -DSPEC_CPU_LP64
 470.lbm: -DSPEC_CPU_LP64
 481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
 482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast



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Peak Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

C++ benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Fortran benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast

Benchmarks using both Fortran and C:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.xml



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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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