



SPEC® CFP2006 Result

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Bull SAS

NovaScale T820
(Intel Xeon processor 3040, 1.86GHz)

SPECfp®2006 = 12.5

SPECfp_base2006 = 12.2

CPU2006 license: 20

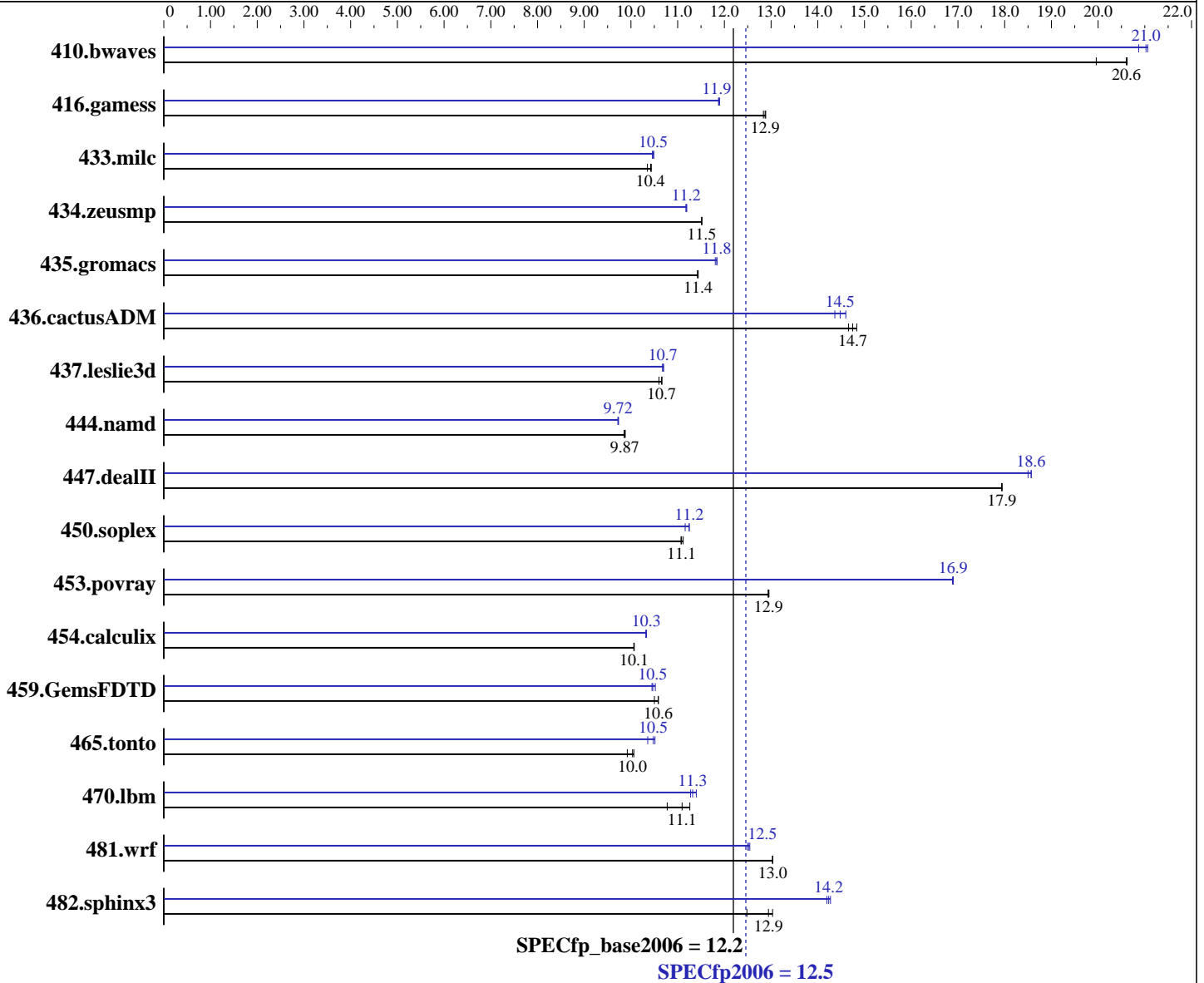
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 3040
 CPU Characteristics: 1.86 GHz, 4 MB L2, 1066 MHz system bus
 CPU MHz: 1860
 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: 2 MB I+D on chip per chip

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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: 4 GB (4x1 GB) PC2-4200E ECC CL4
Disk Subsystem: 1x160 GB SATA2, 7200 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	681	20.0	660	20.6	659	20.6	651	20.9	646	21.0	645	21.1
416.gamess	1520	12.9	1525	12.8	1521	12.9	1648	11.9	1649	11.9	1645	11.9
433.milc	887	10.4	881	10.4	880	10.4	876	10.5	878	10.5	875	10.5
434.zeusmp	790	11.5	790	11.5	790	11.5	813	11.2	814	11.2	814	11.2
435.gromacs	625	11.4	624	11.4	624	11.4	605	11.8	603	11.8	603	11.8
436.cactusADM	810	14.7	815	14.7	806	14.8	832	14.4	825	14.5	818	14.6
437.leslie3d	887	10.6	882	10.7	881	10.7	879	10.7	880	10.7	881	10.7
444.namd	814	9.86	812	9.88	813	9.87	825	9.72	824	9.73	825	9.72
447.dealII	638	17.9	638	17.9	637	17.9	616	18.6	618	18.5	616	18.6
450.soplex	750	11.1	753	11.1	753	11.1	747	11.2	742	11.2	741	11.2
453.povray	411	12.9	411	12.9	411	13.0	315	16.9	315	16.9	315	16.9
454.calculix	820	10.1	819	10.1	819	10.1	798	10.3	800	10.3	799	10.3
459.GemsFDTD	1010	10.5	1002	10.6	1002	10.6	1015	10.5	1014	10.5	1008	10.5
465.tonto	992	9.92	978	10.1	981	10.0	950	10.4	939	10.5	936	10.5
470.lbm	1238	11.1	1220	11.3	1275	10.8	1218	11.3	1214	11.3	1205	11.4
481.wrf	857	13.0	857	13.0	857	13.0	893	12.5	894	12.5	890	12.5
482.sphinx3	1561	12.5	1496	13.0	1506	12.9	1373	14.2	1366	14.3	1369	14.2

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

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

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Base Compiler Invocation (Continued)

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

Peak Compiler Invocation

C benchmarks:
icc

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Peak Compiler Invocation (Continued)

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 other inquiries, please contact webmaster@spec.org.

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