



SPEC® CFP2006 Result

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Bull SAS

NovaScale R460
(Intel Xeon processor E5310,1.60GHz)

SPECfp®2006 = 10.1

SPECfp_base2006 = 9.89

CPU2006 license: 20

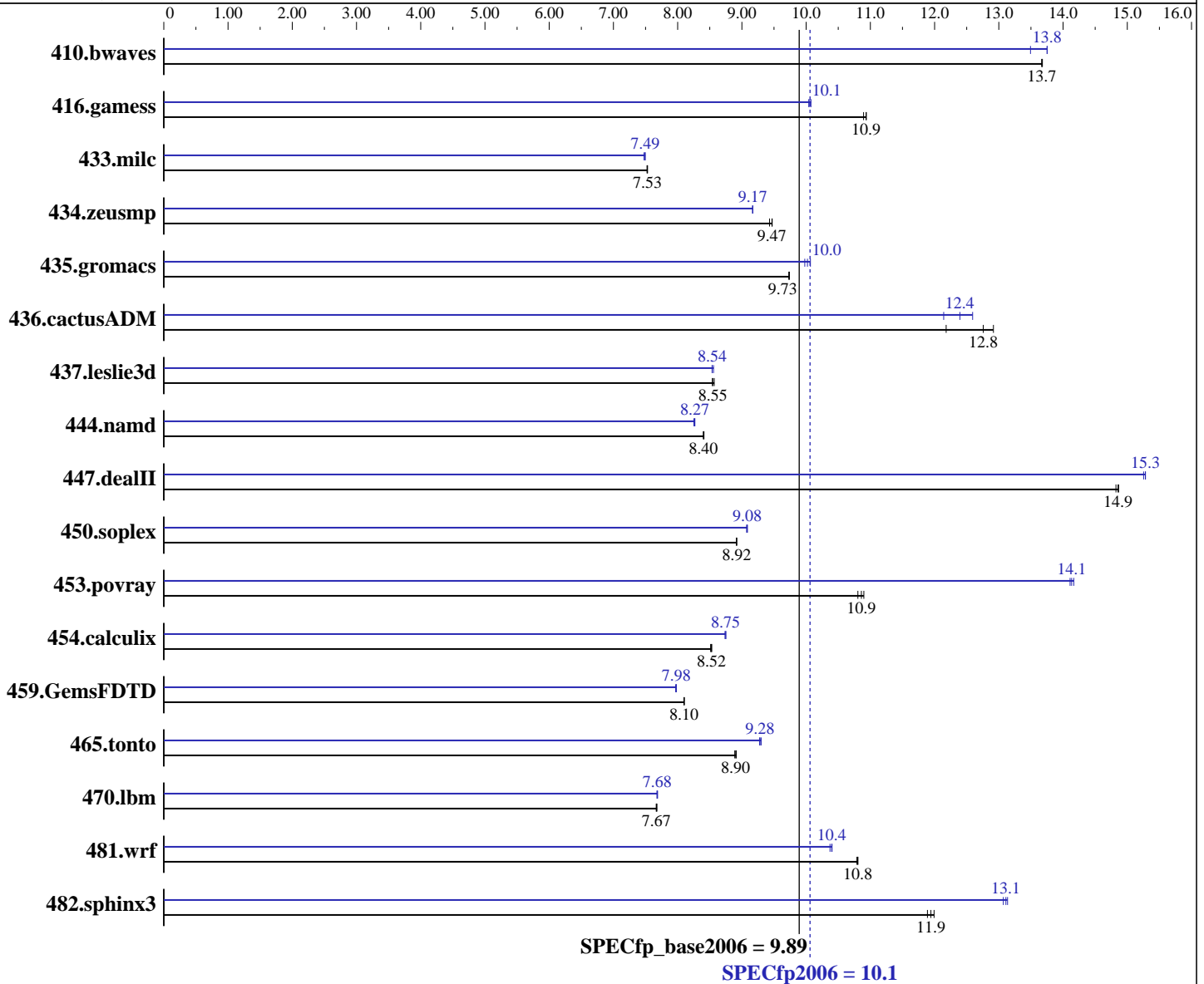
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5310
 CPU Characteristics: 1.6 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: 12 GB (1GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem: 73 GB SAS, 10000RPM
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	994	13.7	994	13.7	994	13.7	1007	13.5	988	13.8	988	13.8
416.gamess	1797	10.9	1791	10.9	1790	10.9	1950	10.0	1943	10.1	1947	10.1
433.milc	1219	7.53	1220	7.52	1219	7.53	1228	7.48	1225	7.49	1225	7.49
434.zeusmp	965	9.43	961	9.47	961	9.47	993	9.17	992	9.17	993	9.17
435.gromacs	734	9.73	733	9.74	733	9.73	713	10.0	716	9.98	709	10.1
436.cactusADM	981	12.2	937	12.8	925	12.9	964	12.4	949	12.6	984	12.1
437.leslie3d	1101	8.54	1100	8.55	1097	8.57	1098	8.56	1101	8.54	1101	8.54
444.namd	955	8.40	954	8.41	955	8.40	972	8.25	970	8.27	970	8.27
447.dealII	770	14.9	770	14.9	772	14.8	750	15.3	749	15.3	749	15.3
450.soplex	935	8.92	935	8.92	935	8.92	919	9.07	918	9.08	918	9.08
453.povray	488	10.9	492	10.8	490	10.9	376	14.1	376	14.2	377	14.1
454.calculix	968	8.52	967	8.53	969	8.51	943	8.75	943	8.75	944	8.74
459.GemsFDTD	1310	8.10	1310	8.10	1309	8.10	1331	7.97	1330	7.98	1330	7.98
465.tonto	1104	8.91	1105	8.90	1107	8.89	1060	9.28	1061	9.27	1058	9.30
470.lbm	1790	7.68	1792	7.67	1792	7.67	1787	7.69	1789	7.68	1789	7.68
481.wrf	1034	10.8	1035	10.8	1034	10.8	1077	10.4	1074	10.4	1074	10.4
482.sphinx3	1625	12.0	1632	11.9	1639	11.9	1491	13.1	1487	13.1	1484	13.1

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

General Notes

The NovaScale R440 and the NovaScale R460 models are electronically equivalent.
The results have been measured on a NovaScale R460 model.



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Base Compiler Invocation

C benchmarks:
icc

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 other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:05:46 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 15 May 2007.