



SPEC® CFP2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor E5320,1.86GHz)

SPECfp®2006 = 11.1

SPECfp_base2006 = 10.9

CPU2006 license: 20

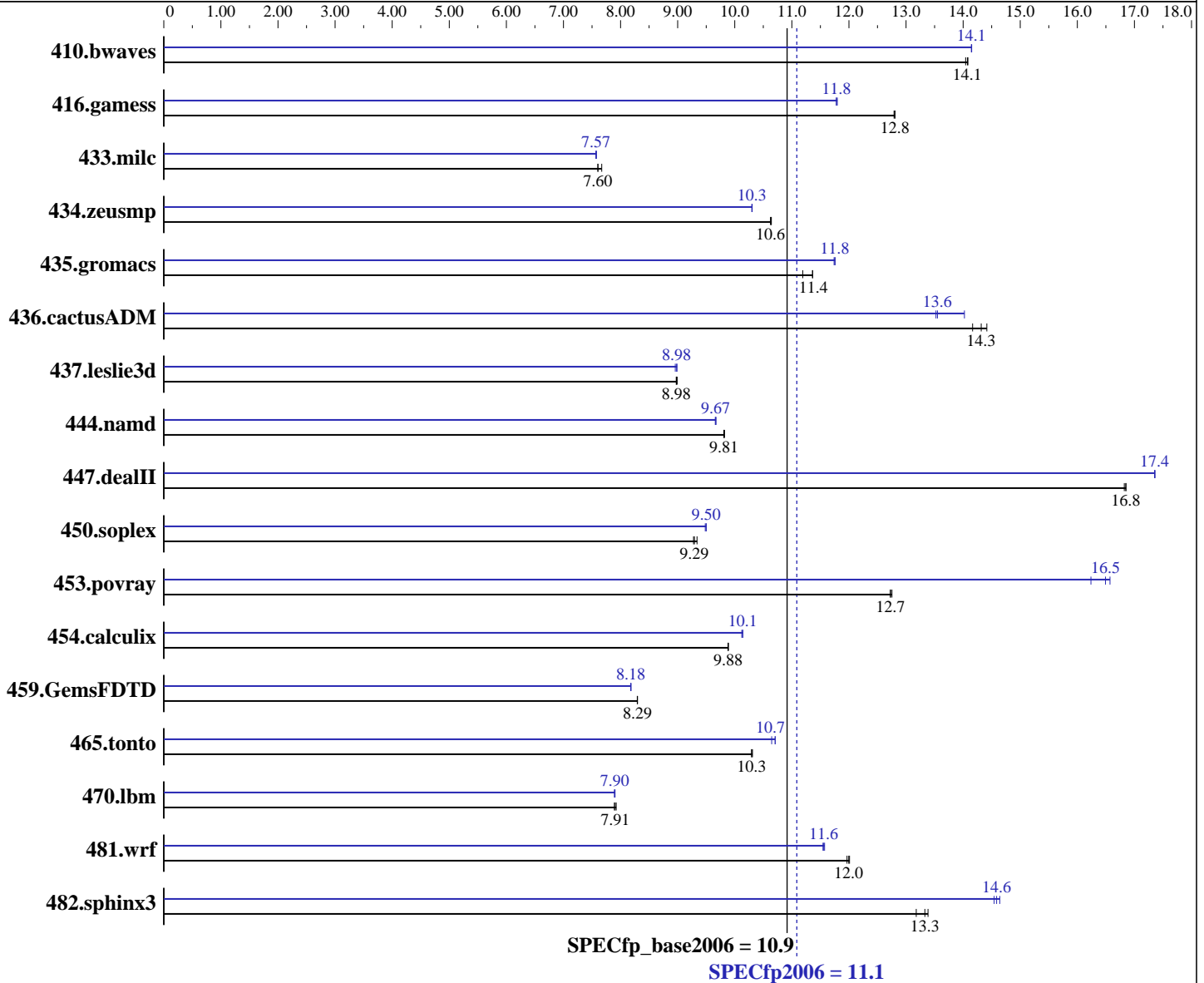
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1.86 GHz, 8 MB L2, 1066 MHz system bus
 CPU MHz: 1860
 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 (12x1 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x73 GB SAS, 10000 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	966	14.1	965	14.1	968	14.0	961	14.1	960	14.1	961	14.1
416.gamess	1529	12.8	1529	12.8	1531	12.8	1660	11.8	1662	11.8	1662	11.8
433.milc	1197	7.67	1207	7.60	1207	7.60	1212	7.58	1213	7.57	1213	7.57
434.zeusmp	855	10.6	856	10.6	856	10.6	884	10.3	883	10.3	883	10.3
435.gromacs	628	11.4	628	11.4	638	11.2	608	11.8	607	11.8	608	11.7
436.cactusADM	844	14.2	829	14.4	835	14.3	852	14.0	882	13.6	884	13.5
437.leslie3d	1045	8.99	1047	8.98	1047	8.98	1046	8.99	1047	8.98	1049	8.96
444.namd	818	9.81	817	9.81	817	9.82	830	9.67	829	9.67	830	9.66
447.dealII	679	16.8	680	16.8	679	16.9	659	17.4	659	17.4	659	17.4
450.soplex	893	9.34	897	9.29	899	9.28	878	9.50	878	9.50	879	9.48
453.povray	418	12.7	418	12.7	417	12.8	328	16.2	323	16.5	321	16.6
454.calculix	834	9.89	835	9.88	835	9.88	815	10.1	814	10.1	814	10.1
459.GemsFDTD	1279	8.29	1280	8.29	1279	8.30	1297	8.18	1297	8.18	1297	8.18
465.tonto	954	10.3	956	10.3	956	10.3	919	10.7	919	10.7	924	10.6
470.lbm	1734	7.92	1738	7.91	1741	7.89	1738	7.90	1740	7.90	1741	7.89
481.wrf	931	12.0	930	12.0	933	12.0	965	11.6	966	11.6	967	11.5
482.sphinx3	1456	13.4	1479	13.2	1462	13.3	1331	14.6	1340	14.5	1336	14.6

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'
'/usr/bin/taskset' used to bind processes to CPUs
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.

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