



SPEC® CFP2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5120,1.86GHz)

SPECfp®2006 = 10.9

SPECfp_base2006 = 10.7

CPU2006 license: 20

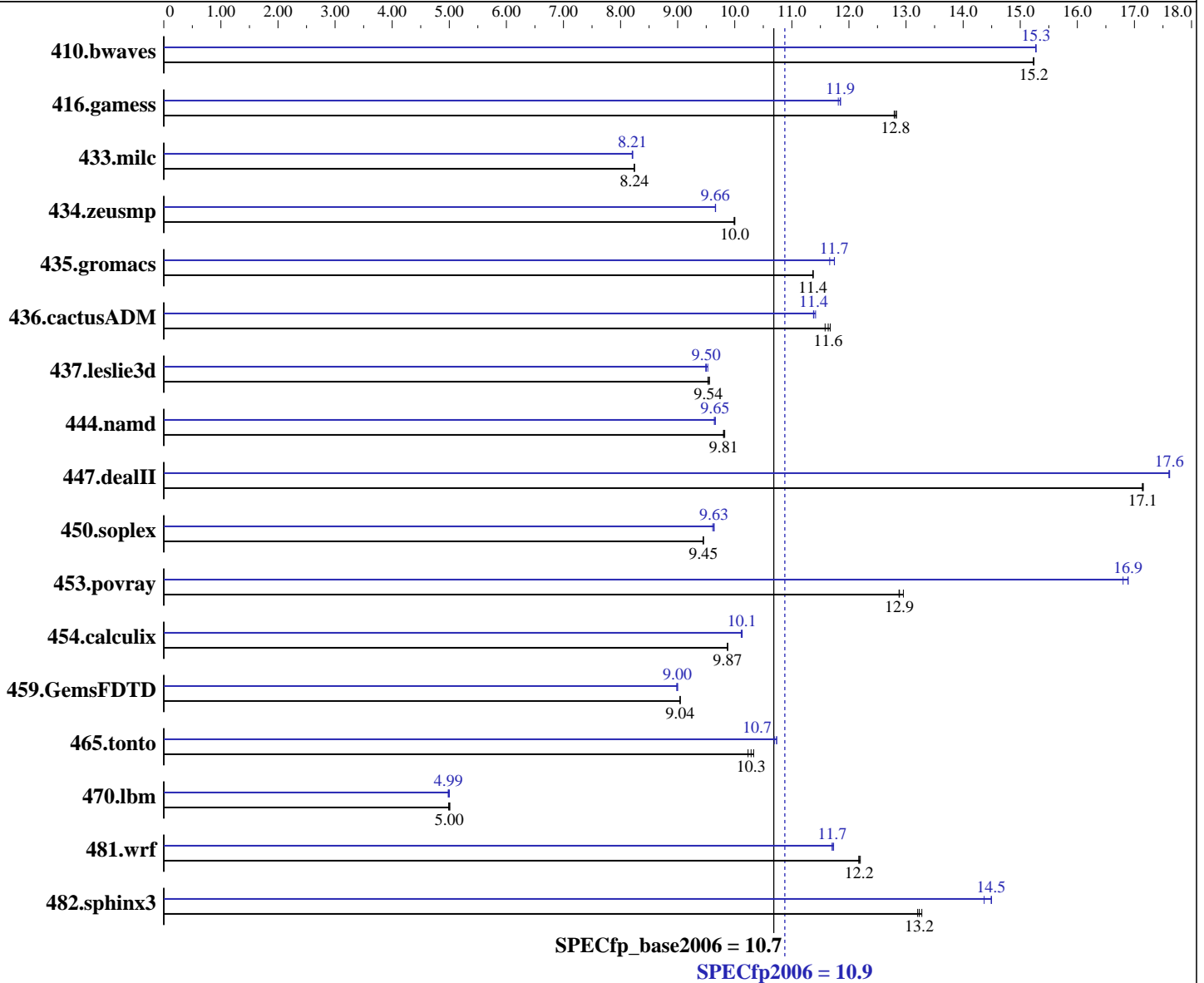
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5120
 CPU Characteristics: 1.86 GHz, 4 MB L2, 1066 MHz system bus
 CPU MHz: 1866
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 to 2 chips
 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: 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: 1x73 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	892	15.2	892	15.2	892	15.2	890	15.3	890	15.3	890	15.3
416.gamess	1526	12.8	1531	12.8	1528	12.8	1652	11.9	1652	11.9	1657	11.8
433.milc	1114	8.24	1114	8.24	1114	8.24	1118	8.21	1119	8.20	1118	8.21
434.zeusmp	910	10.0	911	9.99	910	10.0	942	9.66	942	9.66	942	9.66
435.gromacs	628	11.4	628	11.4	628	11.4	612	11.7	608	11.7	608	11.7
436.cactusADM	1027	11.6	1032	11.6	1024	11.7	1050	11.4	1050	11.4	1047	11.4
437.leslie3d	985	9.54	986	9.53	983	9.56	987	9.53	989	9.50	990	9.49
444.namd	818	9.80	816	9.83	818	9.81	830	9.66	832	9.64	831	9.65
447.dealII	668	17.1	667	17.1	667	17.2	650	17.6	649	17.6	650	17.6
450.soplex	883	9.45	882	9.45	883	9.45	866	9.63	865	9.64	867	9.61
453.povray	413	12.9	411	13.0	413	12.9	315	16.9	317	16.8	315	16.9
454.calculix	835	9.88	836	9.87	836	9.87	816	10.1	814	10.1	815	10.1
459.GemsFDTD	1173	9.04	1173	9.04	1173	9.04	1179	9.00	1181	8.98	1179	9.00
465.tonto	952	10.3	962	10.2	957	10.3	917	10.7	920	10.7	917	10.7
470.lbm	2742	5.01	2747	5.00	2754	4.99	2747	5.00	2755	4.99	2758	4.98
481.wrf	917	12.2	918	12.2	916	12.2	952	11.7	954	11.7	954	11.7
482.sphinx3	1468	13.3	1473	13.2	1476	13.2	1344	14.5	1356	14.4	1345	14.5

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

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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