



SPEC® CFP2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor X5355,2.66GHz)

SPECfp®2006 = 14.5

SPECfp_base2006 = 14.3

CPU2006 license: 20

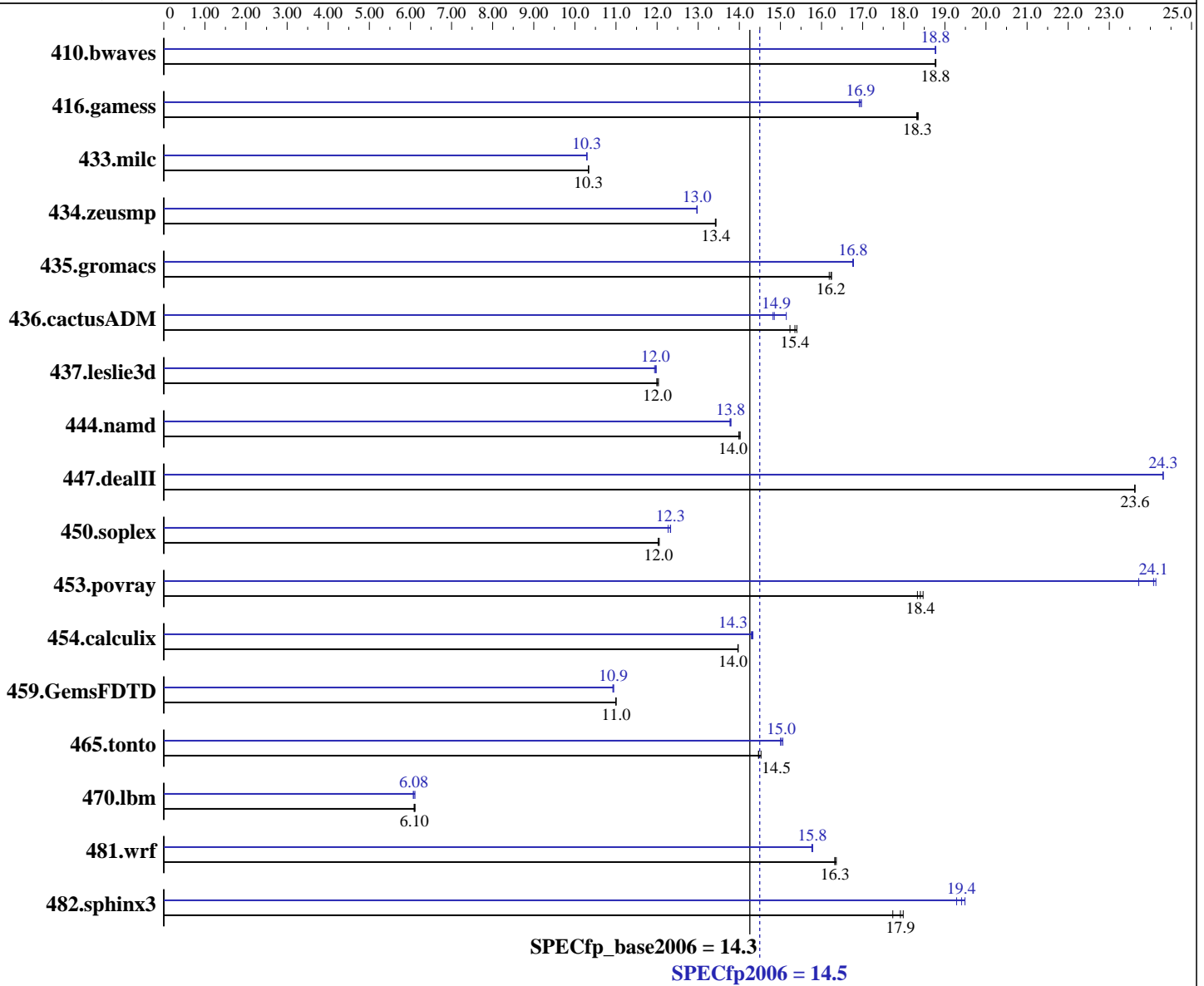
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 2.66 GHz, 8 MB L2, 1333 MHz system bus
 CPU MHz: 2666
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 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: 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	724	18.8	724	18.8	724	18.8	724	18.8	724	18.8	724	18.8
416.gamess	1069	18.3	1067	18.4	1068	18.3	1154	17.0	1155	16.9	1157	16.9
433.milc	889	10.3	889	10.3	888	10.3	892	10.3	892	10.3	892	10.3
434.zeusmp	678	13.4	678	13.4	678	13.4	701	13.0	702	13.0	702	13.0
435.gromacs	440	16.2	440	16.2	441	16.2	426	16.8	426	16.8	426	16.8
436.cactusADM	778	15.4	785	15.2	776	15.4	805	14.9	789	15.1	806	14.8
437.leslie3d	783	12.0	784	12.0	781	12.0	785	12.0	786	12.0	787	11.9
444.namd	573	14.0	572	14.0	573	14.0	582	13.8	582	13.8	581	13.8
447.dealII	484	23.6	484	23.6	484	23.6	471	24.3	471	24.3	471	24.3
450.soplex	693	12.0	693	12.0	692	12.1	676	12.3	677	12.3	680	12.3
453.povray	290	18.3	288	18.5	289	18.4	220	24.1	224	23.7	221	24.1
454.calculix	591	14.0	590	14.0	591	14.0	576	14.3	577	14.3	577	14.3
459.GemsFDTD	965	11.0	965	11.0	964	11.0	970	10.9	971	10.9	970	10.9
465.tonto	677	14.5	680	14.5	680	14.5	653	15.1	655	15.0	656	15.0
470.lbm	2248	6.11	2254	6.10	2257	6.09	2249	6.11	2258	6.08	2264	6.07
481.wrf	684	16.3	684	16.3	683	16.4	708	15.8	709	15.8	708	15.8
482.sphinx3	1084	18.0	1088	17.9	1099	17.7	1000	19.5	1004	19.4	1011	19.3

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

General Notes

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