



SPEC[®] CFP2006 Result

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Bull SAS

NovaScale R460
(Intel Xeon processor E5345,2.33GHz)

SPECfp[®]2006 = 13.3

SPECfp_base2006 = 13.1

CPU2006 license: 20

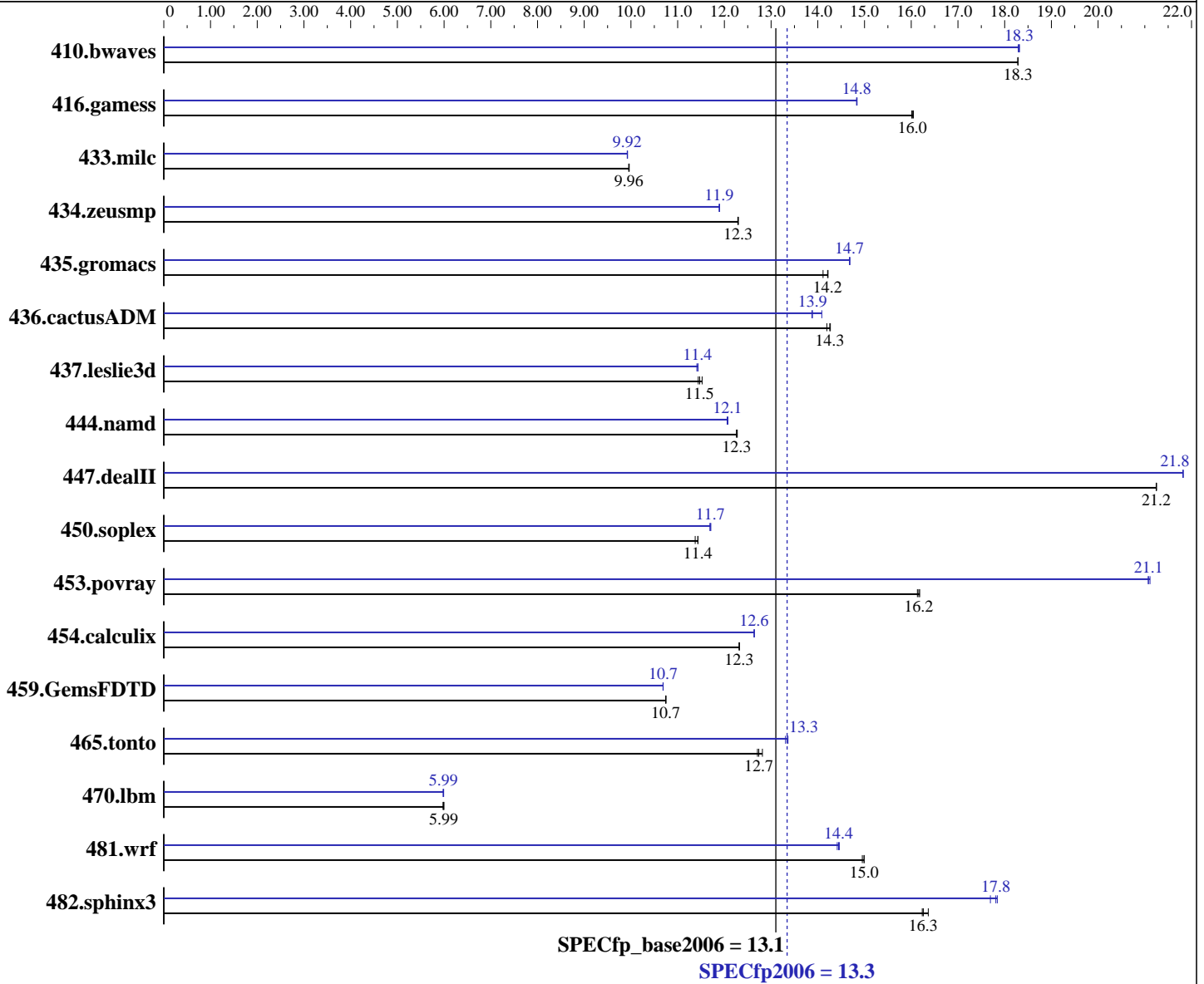
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5345
 CPU Characteristics: 2.33GHz, 2x4 MB L2 shared, 1333 MHz system bus
 CPU MHz: 2330
 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 (2GB 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	743	18.3	743	18.3	743	18.3	742	18.3	743	18.3	742	18.3
416.gamess	1223	16.0	1220	16.0	1222	16.0	1320	14.8	1319	14.8	1320	14.8
433.milc	922	9.95	921	9.96	922	9.96	925	9.92	925	9.92	925	9.93
434.zeusmp	741	12.3	740	12.3	740	12.3	765	11.9	765	11.9	765	11.9
435.gromacs	502	14.2	502	14.2	506	14.1	486	14.7	486	14.7	486	14.7
436.cactusADM	837	14.3	842	14.2	838	14.3	861	13.9	861	13.9	848	14.1
437.leslie3d	819	11.5	822	11.4	816	11.5	822	11.4	822	11.4	824	11.4
444.namd	654	12.3	654	12.3	653	12.3	664	12.1	665	12.1	664	12.1
447.dealII	538	21.2	539	21.2	538	21.3	524	21.8	524	21.8	524	21.8
450.soplex	730	11.4	729	11.4	733	11.4	713	11.7	713	11.7	712	11.7
453.povray	330	16.1	329	16.2	329	16.2	252	21.1	252	21.1	252	21.1
454.calculix	670	12.3	670	12.3	670	12.3	653	12.6	653	12.6	653	12.6
459.GemsFDTD	987	10.7	987	10.7	987	10.7	993	10.7	993	10.7	993	10.7
465.tonto	773	12.7	774	12.7	768	12.8	736	13.4	737	13.3	739	13.3
470.lbm	2291	6.00	2293	5.99	2299	5.98	2298	5.98	2293	5.99	2296	5.99
481.wrf	745	15.0	747	15.0	745	15.0	775	14.4	772	14.5	773	14.4
482.sphinx3	1191	16.4	1200	16.2	1199	16.3	1092	17.8	1101	17.7	1094	17.8

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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