



SPEC® CFP2006 Result

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Bull SAS

NovaScale R440
(Intel Xeon processor 5130,2.00GHz)

SPECfp®2006 = 12.2

SPECfp_base2006 = 11.9

CPU2006 license: 20

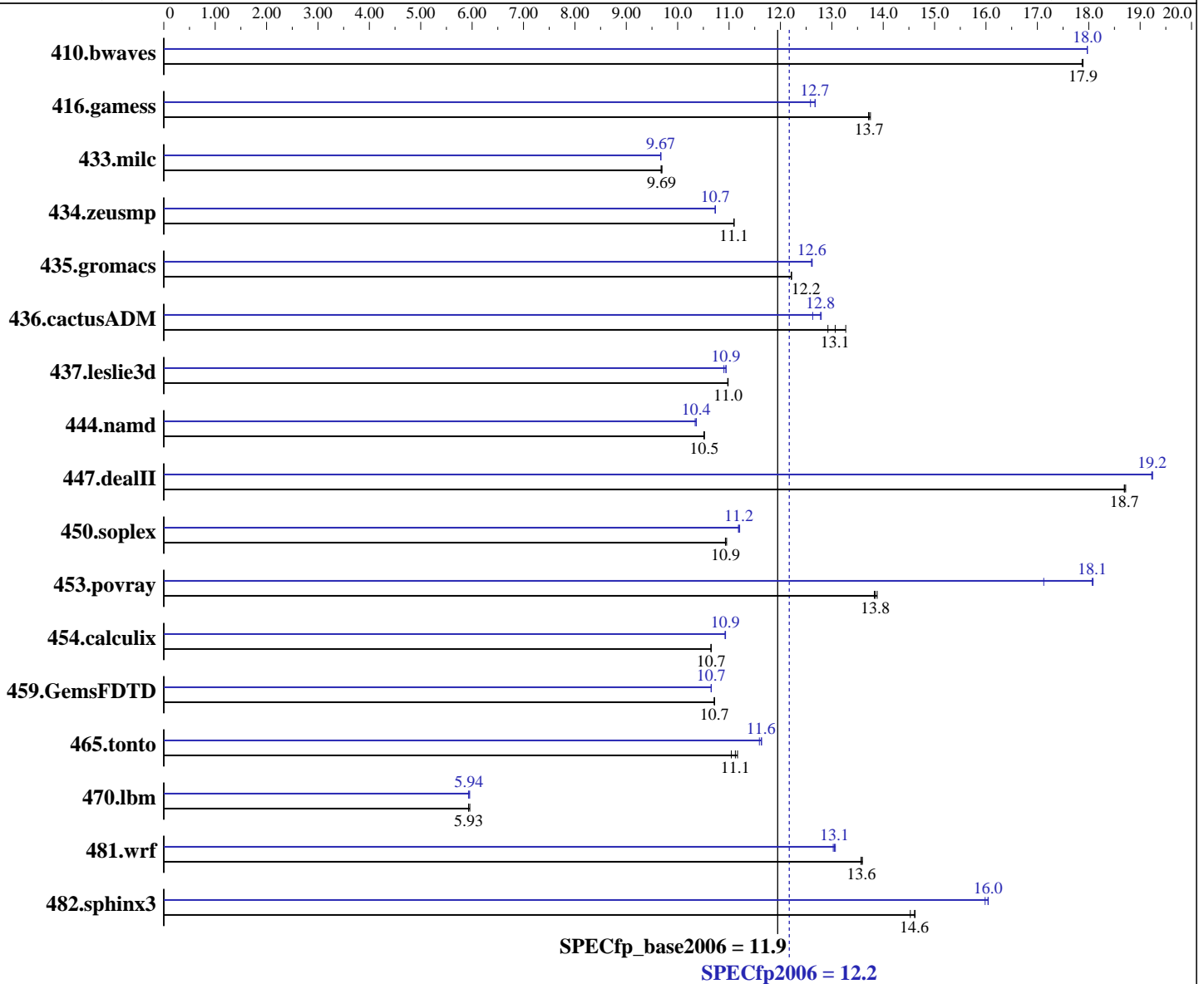
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 2.00 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 2000
 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	760	17.9	760	17.9	760	17.9	756	18.0	756	18.0	756	18.0
416.gamess	1428	13.7	1424	13.8	1427	13.7	1556	12.6	1545	12.7	1545	12.7
433.milc	949	9.68	948	9.69	947	9.69	949	9.68	949	9.67	950	9.67
434.zeusmp	820	11.1	820	11.1	820	11.1	848	10.7	848	10.7	848	10.7
435.gromacs	585	12.2	585	12.2	585	12.2	566	12.6	566	12.6	566	12.6
436.cactusADM	915	13.1	900	13.3	925	12.9	935	12.8	946	12.6	934	12.8
437.leslie3d	857	11.0	856	11.0	856	11.0	859	10.9	859	10.9	862	10.9
444.namd	762	10.5	763	10.5	763	10.5	776	10.3	774	10.4	774	10.4
447.dealII	612	18.7	611	18.7	612	18.7	595	19.2	595	19.2	595	19.2
450.soplex	763	10.9	763	10.9	761	11.0	744	11.2	746	11.2	745	11.2
453.povray	383	13.9	384	13.8	385	13.8	311	17.1	294	18.1	294	18.1
454.calculix	775	10.7	775	10.7	775	10.6	755	10.9	755	10.9	755	10.9
459.GemsFDTD	990	10.7	991	10.7	990	10.7	996	10.7	996	10.7	996	10.7
465.tonto	881	11.2	891	11.0	885	11.1	846	11.6	846	11.6	849	11.6
470.lbm	2307	5.96	2316	5.93	2316	5.93	2308	5.95	2313	5.94	2317	5.93
481.wrf	823	13.6	822	13.6	823	13.6	855	13.1	857	13.0	856	13.1
482.sphinx3	1334	14.6	1342	14.5	1333	14.6	1215	16.0	1219	16.0	1215	16.0

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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