



# SPEC® CFP2006 Result

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## Bull SAS

NovaScale R460  
(Intel Xeon processor 5140,2.33GHz)

SPECfp®2006 = 13.4

SPECfp\_base2006 = 13.2

CPU2006 license: 20

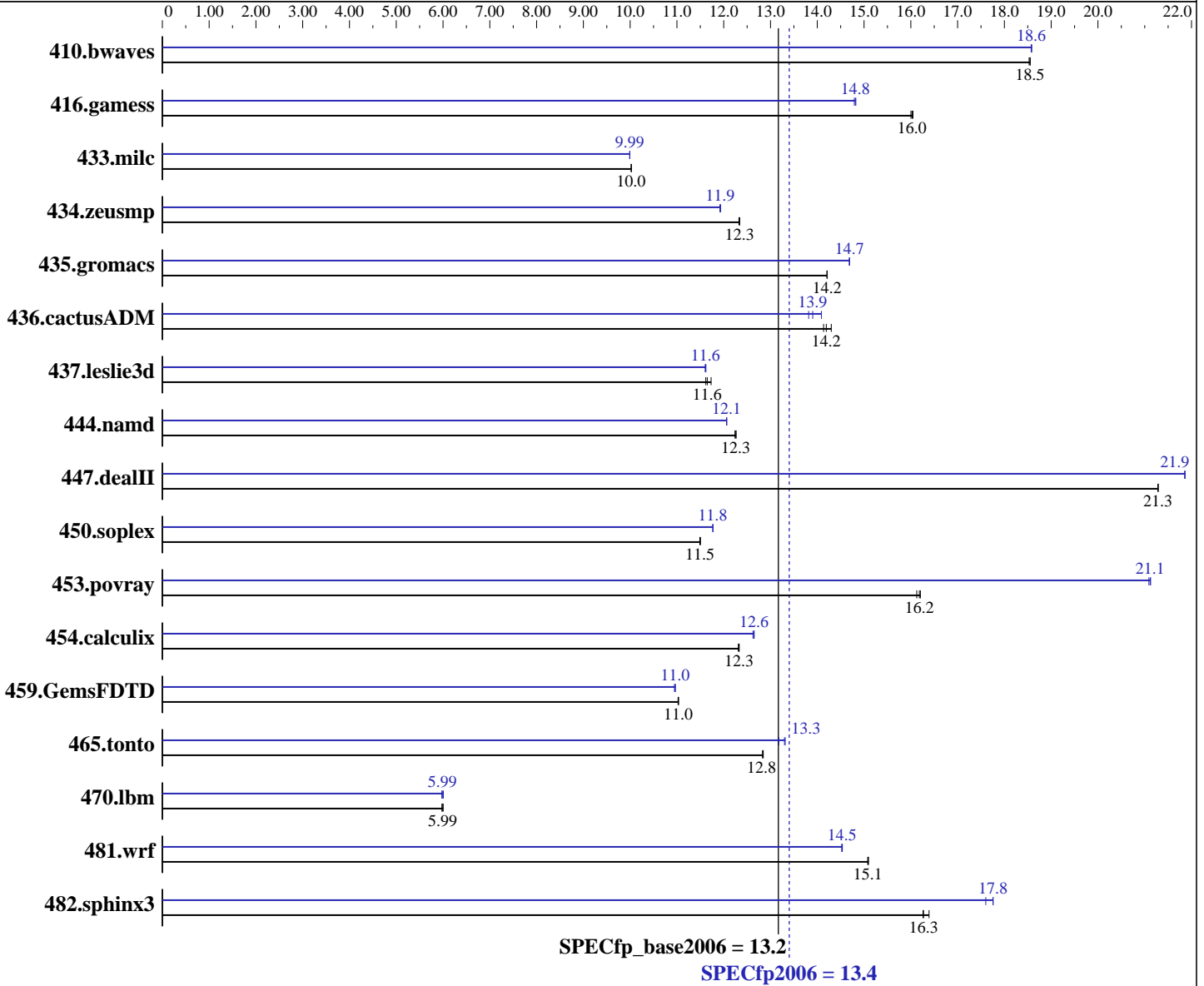
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon 5140  
 CPU Characteristics: 2.33 GHz, 4 MB L2, 1333 MHz system bus  
 CPU MHz: 2333  
 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	<u>733</u>	<u>18.5</u>	733	18.6	733	18.5	732	18.6	731	18.6	<u>732</u>	<u>18.6</u>
416.gamess	<u>1222</u>	<u>16.0</u>	1224	16.0	1220	16.0	1321	14.8	1324	14.8	<u>1322</u>	<u>14.8</u>
433.milc	916	10.0	916	10.0	<u>916</u>	<u>10.0</u>	919	9.99	919	9.99	<u>919</u>	<u>9.99</u>
434.zeusmp	<u>737</u>	<u>12.3</u>	737	12.3	738	12.3	762	11.9	763	11.9	<u>763</u>	<u>11.9</u>
435.gromacs	503	14.2	502	14.2	<u>502</u>	<u>14.2</u>	<u>486</u>	<u>14.7</u>	486	14.7	486	14.7
436.cactusADM	<u>842</u>	<u>14.2</u>	836	14.3	845	14.1	865	13.8	848	14.1	<u>860</u>	<u>13.9</u>
437.leslie3d	<u>807</u>	<u>11.6</u>	809	11.6	801	11.7	<u>810</u>	<u>11.6</u>	809	11.6	810	11.6
444.namd	<u>654</u>	<u>12.3</u>	655	12.2	654	12.3	665	12.1	665	12.1	<u>665</u>	<u>12.1</u>
447.dealII	<u>538</u>	<u>21.3</u>	538	21.3	537	21.3	523	21.9	<u>523</u>	<u>21.9</u>	523	21.9
450.soplex	726	11.5	<u>726</u>	<u>11.5</u>	725	11.5	709	11.8	<u>709</u>	<u>11.8</u>	709	11.8
453.povray	330	16.1	<u>329</u>	<u>16.2</u>	328	16.2	<u>252</u>	<u>21.1</u>	252	21.1	252	21.1
454.calculix	<u>669</u>	<u>12.3</u>	669	12.3	670	12.3	652	12.7	653	12.6	<u>652</u>	<u>12.6</u>
459.GemsFDTD	962	11.0	961	11.0	<u>962</u>	<u>11.0</u>	969	10.9	968	11.0	<u>968</u>	<u>11.0</u>
465.tonto	766	12.8	<u>767</u>	<u>12.8</u>	767	12.8	739	13.3	<u>740</u>	<u>13.3</u>	747	13.2
470.lbm	2289	6.00	<u>2292</u>	<u>5.99</u>	2299	5.98	2287	6.01	<u>2295</u>	<u>5.99</u>	2300	5.97
481.wrf	741	15.1	740	15.1	<u>741</u>	<u>15.1</u>	<u>769</u>	<u>14.5</u>	768	14.5	769	14.5
482.sphinx3	1189	16.4	<u>1198</u>	<u>16.3</u>	1199	16.3	1097	17.8	1107	17.6	<u>1098</u>	<u>17.8</u>

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](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](http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.xml)



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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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