



# SPEC® CFP2006 Result

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## Bull SAS

NovaScale R460  
(Intel Xeon processor E5335,2.00GHz)

SPECfp®2006 = 12.1

SPECfp\_base2006 = 11.9

CPU2006 license: 20

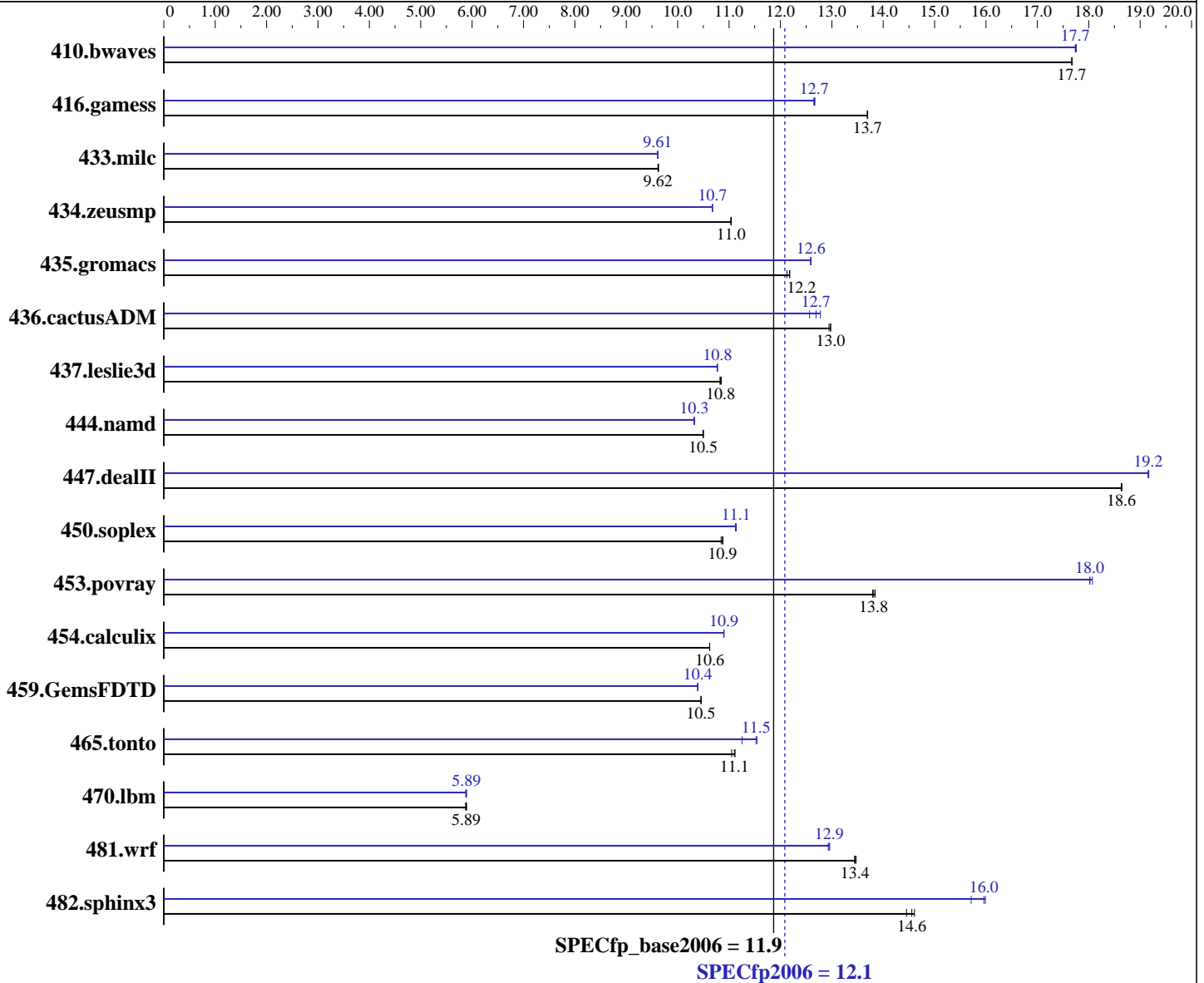
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



**Hardware**

CPU Name: Intel Xeon E5335  
 CPU Characteristics: 2.0GHz, 2x4 MB L2 shared, 1333 MHz system bus  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 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	769	17.7	<b>769</b>	<b>17.7</b>	769	17.7	<b>766</b>	<b>17.7</b>	766	17.7	765	17.8
416.gamess	1430	13.7	<b>1430</b>	<b>13.7</b>	1429	13.7	1545	12.7	1548	12.6	<b>1547</b>	<b>12.7</b>
433.milc	953	9.63	<b>954</b>	<b>9.62</b>	955	9.62	<b>955</b>	<b>9.61</b>	955	9.61	955	9.61
434.zeusmp	<b>824</b>	<b>11.0</b>	825	11.0	824	11.0	852	10.7	<b>852</b>	<b>10.7</b>	852	10.7
435.gromacs	589	12.1	<b>586</b>	<b>12.2</b>	586	12.2	<b>567</b>	<b>12.6</b>	567	12.6	567	12.6
436.cactusADM	<b>921</b>	<b>13.0</b>	923	12.9	921	13.0	<b>942</b>	<b>12.7</b>	935	12.8	951	12.6
437.leslie3d	<b>868</b>	<b>10.8</b>	869	10.8	866	10.9	872	10.8	<b>872</b>	<b>10.8</b>	873	10.8
444.namd	764	10.5	764	10.5	<b>764</b>	<b>10.5</b>	776	10.3	<b>777</b>	<b>10.3</b>	777	10.3
447.dealII	<b>614</b>	<b>18.6</b>	614	18.6	614	18.6	<b>597</b>	<b>19.2</b>	597	19.2	597	19.2
450.soplex	769	10.8	<b>767</b>	<b>10.9</b>	766	10.9	750	11.1	749	11.1	<b>749</b>	<b>11.1</b>
453.povray	386	13.8	<b>385</b>	<b>13.8</b>	384	13.8	<b>295</b>	<b>18.0</b>	294	18.1	295	18.0
454.calculix	777	10.6	777	10.6	<b>777</b>	<b>10.6</b>	757	10.9	757	10.9	<b>757</b>	<b>10.9</b>
459.GemsFDTD	1015	10.5	<b>1015</b>	<b>10.5</b>	1015	10.5	1021	10.4	<b>1021</b>	<b>10.4</b>	1021	10.4
465.tonto	890	11.1	885	11.1	<b>886</b>	<b>11.1</b>	874	11.3	853	11.5	<b>854</b>	<b>11.5</b>
470.lbm	2332	5.89	2340	5.87	<b>2334</b>	<b>5.89</b>	2339	5.87	2332	5.89	<b>2334</b>	<b>5.89</b>
481.wrf	<b>830</b>	<b>13.4</b>	831	13.4	829	13.5	864	12.9	<b>863</b>	<b>12.9</b>	862	13.0
482.sphinx3	1334	14.6	<b>1339</b>	<b>14.6</b>	1348	14.5	1240	15.7	1219	16.0	<b>1221</b>	<b>16.0</b>

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

## 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](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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