



# SPEC<sup>®</sup> CFP2006 Result

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## Bull SAS

NovaScale R460  
(Intel Xeon processor 5120,1.86GHz)

SPECfp<sup>®</sup>2006 = 10.9

SPECfp\_base2006 = 10.7

CPU2006 license: 20

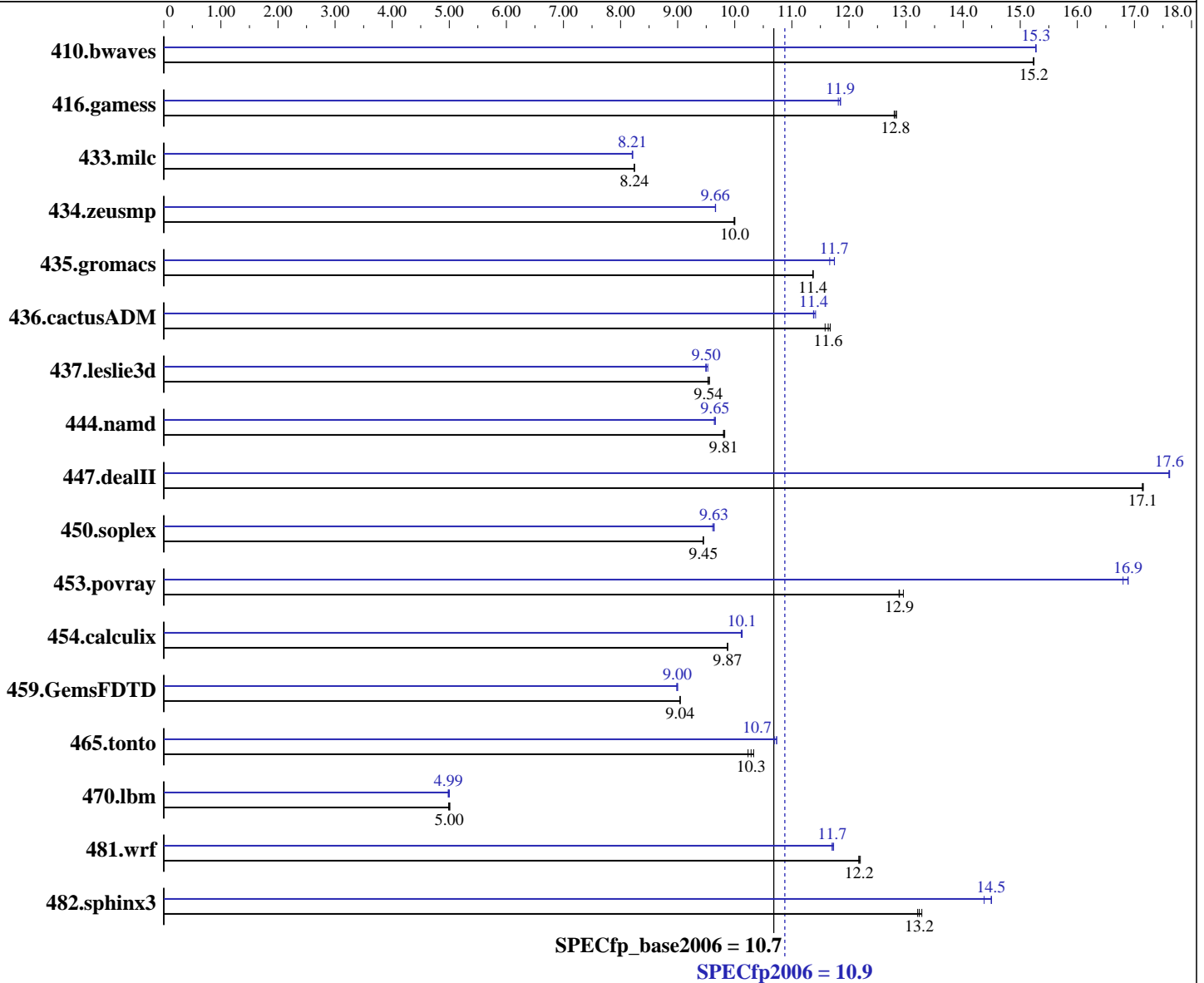
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon 5120  
 CPU Characteristics: 1.86 GHz, 4 MB L2, 1066 MHz system bus  
 CPU MHz: 1866  
 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	<b>892</b>	<b>15.2</b>	892	15.2	892	15.2	890	15.3	890	15.3	<b>890</b>	<b>15.3</b>
416.gamess	1526	12.8	1531	12.8	<b>1528</b>	<b>12.8</b>	<b>1652</b>	<b>11.9</b>	1652	11.9	1657	11.8
433.milc	1114	8.24	1114	8.24	<b>1114</b>	<b>8.24</b>	<b>1118</b>	<b>8.21</b>	1119	8.20	1118	8.21
434.zeusmp	910	10.0	911	9.99	<b>910</b>	<b>10.0</b>	<b>942</b>	<b>9.66</b>	942	9.66	942	9.66
435.gromacs	<b>628</b>	<b>11.4</b>	628	11.4	628	11.4	612	11.7	<b>608</b>	<b>11.7</b>	608	11.7
436.cactusADM	<b>1027</b>	<b>11.6</b>	1032	11.6	1024	11.7	1050	11.4	<b>1050</b>	<b>11.4</b>	1047	11.4
437.leslie3d	<b>985</b>	<b>9.54</b>	986	9.53	983	9.56	987	9.53	<b>989</b>	<b>9.50</b>	990	9.49
444.namd	818	9.80	816	9.83	<b>818</b>	<b>9.81</b>	830	9.66	832	9.64	<b>831</b>	<b>9.65</b>
447.dealII	668	17.1	<b>667</b>	<b>17.1</b>	667	17.2	<b>650</b>	<b>17.6</b>	649	17.6	650	17.6
450.soplex	<b>883</b>	<b>9.45</b>	882	9.45	883	9.45	<b>866</b>	<b>9.63</b>	865	9.64	867	9.61
453.povray	413	12.9	411	13.0	<b>413</b>	<b>12.9</b>	<b>315</b>	<b>16.9</b>	317	16.8	315	16.9
454.calculix	835	9.88	<b>836</b>	<b>9.87</b>	836	9.87	816	10.1	814	10.1	<b>815</b>	<b>10.1</b>
459.GemsFDTD	1173	9.04	1173	9.04	<b>1173</b>	<b>9.04</b>	1179	9.00	1181	8.98	<b>1179</b>	<b>9.00</b>
465.tonto	952	10.3	962	10.2	<b>957</b>	<b>10.3</b>	917	10.7	920	10.7	<b>917</b>	<b>10.7</b>
470.lbm	2742	5.01	<b>2747</b>	<b>5.00</b>	2754	4.99	<b>2747</b>	<b>5.00</b>	<b>2755</b>	<b>4.99</b>	2758	4.98
481.wrf	<b>917</b>	<b>12.2</b>	918	12.2	916	12.2	952	11.7	954	11.7	<b>954</b>	<b>11.7</b>
482.sphinx3	1468	13.3	<b>1473</b>	<b>13.2</b>	1476	13.2	1344	14.5	1356	14.4	<b>1345</b>	<b>14.5</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

/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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