



# SPEC<sup>®</sup> CFP2006 Result

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## Bull SAS

NovaScale R460  
(Intel Xeon processor X5355,2.66GHz)

SPECfp<sup>®</sup>2006 = 14.5

SPECfp\_base2006 = 14.3

CPU2006 license: 20

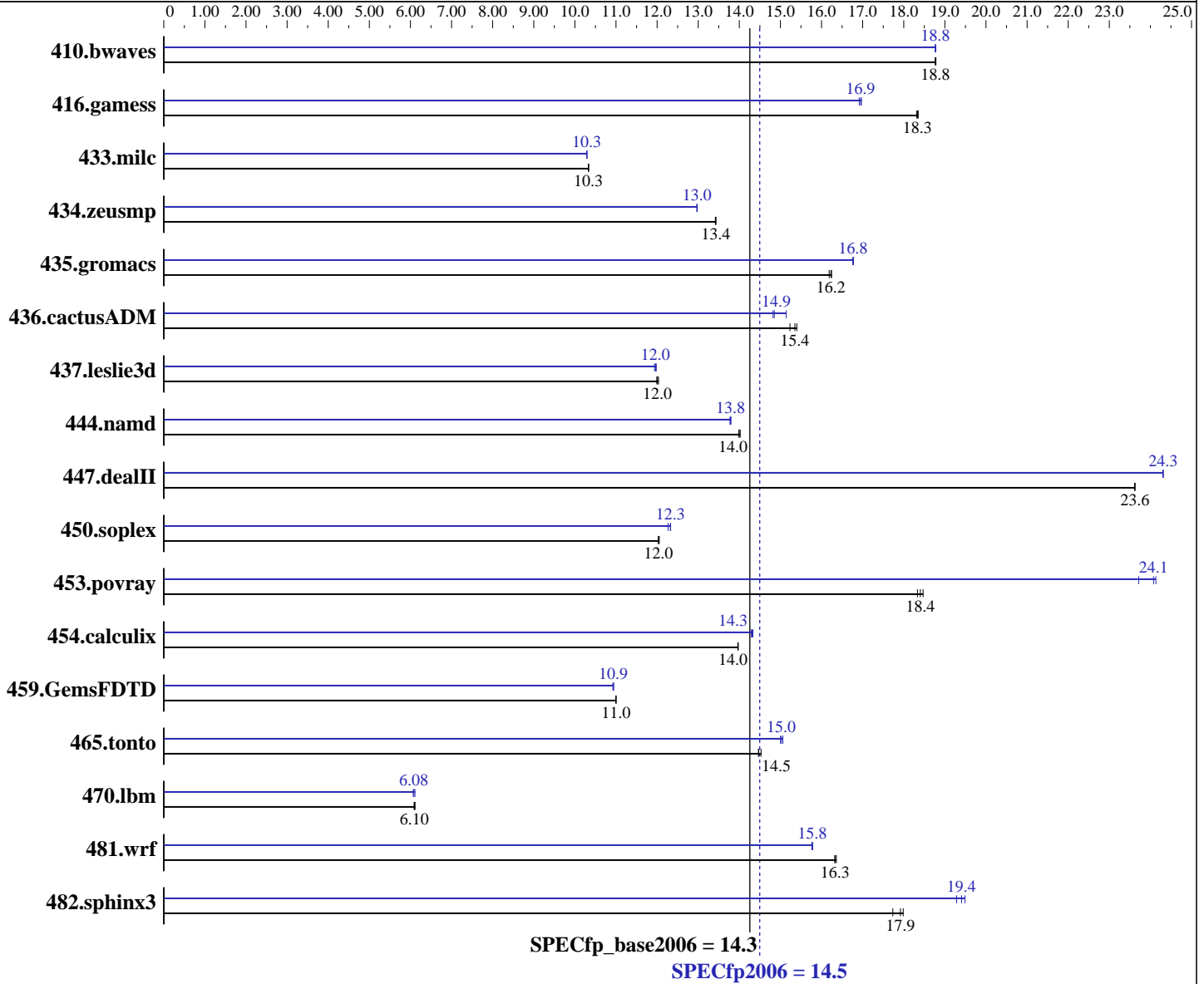
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon X5355  
 CPU Characteristics: 2.66 GHz, 8 MB L2, 1333 MHz system bus  
 CPU MHz: 2666  
 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 (12x2 GB) FB-DIMM PC2-5300F ECC CL5  
Disk Subsystem: 1x73 GB SAS, 10000 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	724	18.8	724	18.8	<b>724</b>	<b>18.8</b>	<b>724</b>	<b>18.8</b>	724	18.8	724	18.8
416.gamess	1069	18.3	1067	18.4	<b>1068</b>	<b>18.3</b>	1154	17.0	<b>1155</b>	<b>16.9</b>	1157	16.9
433.milc	889	10.3	<b>889</b>	<b>10.3</b>	888	10.3	892	10.3	892	10.3	<b>892</b>	<b>10.3</b>
434.zeusmp	678	13.4	<b>678</b>	<b>13.4</b>	678	13.4	701	13.0	702	13.0	<b>702</b>	<b>13.0</b>
435.gromacs	<b>440</b>	<b>16.2</b>	440	16.2	441	16.2	426	16.8	<b>426</b>	<b>16.8</b>	426	16.8
436.cactusADM	<b>778</b>	<b>15.4</b>	785	15.2	776	15.4	<b>805</b>	<b>14.9</b>	789	15.1	806	14.8
437.leslie3d	<b>783</b>	<b>12.0</b>	784	12.0	781	12.0	785	12.0	<b>786</b>	<b>12.0</b>	787	11.9
444.namd	<b>573</b>	<b>14.0</b>	572	14.0	573	14.0	<b>582</b>	<b>13.8</b>	582	13.8	581	13.8
447.dealII	<b>484</b>	<b>23.6</b>	484	23.6	484	23.6	<b>471</b>	<b>24.3</b>	471	24.3	471	24.3
450.soplex	693	12.0	<b>693</b>	<b>12.0</b>	692	12.1	676	12.3	<b>677</b>	<b>12.3</b>	680	12.3
453.povray	290	18.3	288	18.5	<b>289</b>	<b>18.4</b>	220	24.1	224	23.7	<b>221</b>	<b>24.1</b>
454.calculix	<b>591</b>	<b>14.0</b>	590	14.0	591	14.0	576	14.3	<b>577</b>	<b>14.3</b>	577	14.3
459.GemsFDTD	<b>965</b>	<b>11.0</b>	965	11.0	964	11.0	970	10.9	971	10.9	<b>970</b>	<b>10.9</b>
465.tonto	677	14.5	680	14.5	<b>680</b>	<b>14.5</b>	653	15.1	<b>655</b>	<b>15.0</b>	656	15.0
470.lbm	2248	6.11	<b>2254</b>	<b>6.10</b>	2257	6.09	2249	6.11	<b>2258</b>	<b>6.08</b>	2264	6.07
481.wrf	684	16.3	<b>684</b>	<b>16.3</b>	683	16.4	<b>708</b>	<b>15.8</b>	709	15.8	708	15.8
482.sphinx3	1084	18.0	<b>1088</b>	<b>17.9</b>	1099	17.7	1000	19.5	<b>1004</b>	<b>19.4</b>	1011	19.3

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](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 other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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