



# SPEC® CFP2006 Result

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## Bull SAS

NovaScale T840  
(Intel Xeon processor E5345,2.33GHz)

SPECfp®2006 = 12.1

SPECfp\_base2006 = 11.8

CPU2006 license: 20

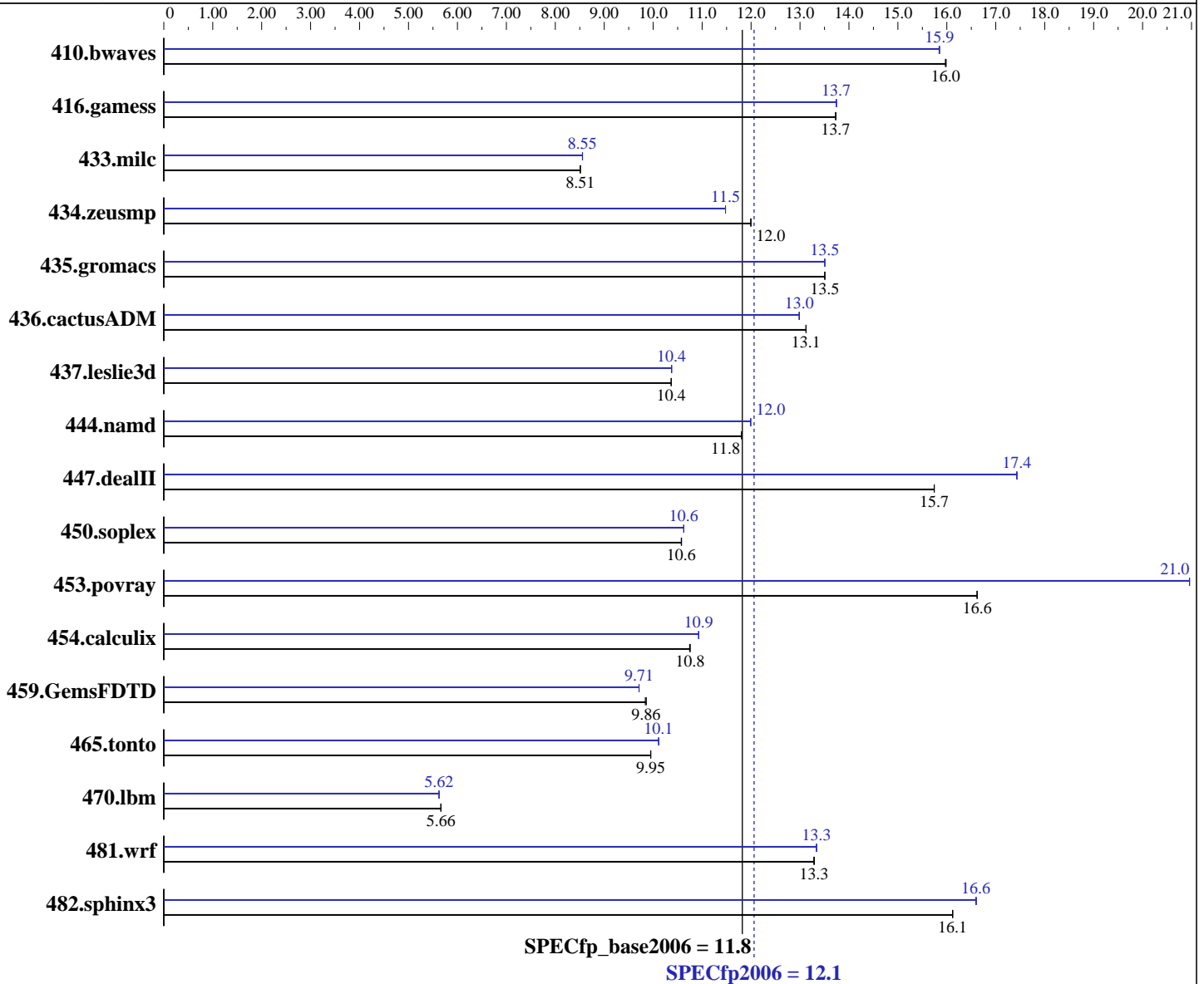
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Nov-2006

Software Availability: Mar-2007



### Hardware

CPU Name: Intel Xeon E5345  
 CPU Characteristics: 2.33 GHz, 8 MB L2, 1333 MHz bus  
 CPU MHz: 2330  
 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: Windows Server 2003 Enterprise X64 Edition  
 Compiler: Intel C++ Compiler for IA32 version 9.1  
 Build 20070322Z Package ID: W\_CC\_C\_9.1.037  
 Intel Fortran Compiler for IA32 version 9.1  
 Build 20070322Z Package ID: W\_FC\_C\_9.1.037  
 Microsoft Visual Studio .NET 2003 (libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default

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L3 Cache: None  
Other Cache: None  
Memory: 16 GB (2x8 GB) FB-DIMM PC2-5300F ECC CL5  
Disk Subsystem: 3x73 GB SCSI, 15000 RPM  
Other Hardware: None

Base Pointers: 32-bit  
Peak Pointers: 32-bit  
Other Software: MicroQuill SmartHeap Library 8.0 (shIW32M.lib)

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	850	16.0	<b>851</b>	<b>16.0</b>	851	16.0	857	15.9	858	15.8	<b>857</b>	<b>15.9</b>
416.gamess	<b>1426</b>	<b>13.7</b>	1426	13.7	1426	13.7	1425	13.7	<b>1425</b>	<b>13.7</b>	1424	13.7
433.milc	1078	8.51	<b>1079</b>	<b>8.51</b>	1079	8.51	1073	8.56	1073	8.55	<b>1073</b>	<b>8.55</b>
434.zeusmp	759	12.0	<b>759</b>	<b>12.0</b>	759	12.0	793	11.5	793	11.5	<b>793</b>	<b>11.5</b>
435.gromacs	529	13.5	529	13.5	<b>529</b>	<b>13.5</b>	529	13.5	529	13.5	<b>529</b>	<b>13.5</b>
436.cactusADM	910	13.1	911	13.1	<b>911</b>	<b>13.1</b>	920	13.0	<b>920</b>	<b>13.0</b>	921	13.0
437.leslie3d	907	10.4	<b>907</b>	<b>10.4</b>	906	10.4	906	10.4	906	10.4	<b>906</b>	<b>10.4</b>
444.namd	679	11.8	<b>679</b>	<b>11.8</b>	679	11.8	669	12.0	669	12.0	<b>669</b>	<b>12.0</b>
447.dealII	727	15.7	727	15.7	<b>727</b>	<b>15.7</b>	656	17.4	<b>656</b>	<b>17.4</b>	656	17.4
450.soplex	788	10.6	<b>789</b>	<b>10.6</b>	789	10.6	785	10.6	785	10.6	<b>785</b>	<b>10.6</b>
453.povray	<b>320</b>	<b>16.6</b>	320	16.6	320	16.6	254	21.0	<b>254</b>	<b>21.0</b>	254	21.0
454.calculix	<b>767</b>	<b>10.8</b>	767	10.8	768	10.7	755	10.9	755	10.9	<b>755</b>	<b>10.9</b>
459.GemsFDTD	1079	9.84	1076	9.86	<b>1076</b>	<b>9.86</b>	<b>1093</b>	<b>9.71</b>	1093	9.71	1093	9.71
465.tonto	989	9.95	989	9.95	<b>989</b>	<b>9.95</b>	<b>973</b>	<b>10.1</b>	973	10.1	973	10.1
470.lbm	2426	5.66	<b>2426</b>	<b>5.66</b>	2426	5.66	2443	5.62	<b>2443</b>	<b>5.62</b>	2444	5.62
481.wrf	841	13.3	<b>841</b>	<b>13.3</b>	840	13.3	837	13.3	<b>838</b>	<b>13.3</b>	838	13.3
482.sphinx3	<b>1209</b>	<b>16.1</b>	1209	16.1	1209	16.1	1174	16.6	<b>1174</b>	<b>16.6</b>	1175	16.6

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Operating System Notes

/NUMPROC=1 flag was added to boot.ini to invoke the uniprocessor environment

## General Notes



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## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99  
C++ benchmarks:  
icl -Qvc7.1  
Fortran benchmarks:  
ifort  
Benchmarks using both Fortran and C:  
icl -Qvc7.1 -Qc99 ifort

## Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore  
444.namd: -TP  
447.dealII: -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
-DBOOST\_NO\_INTRINSIC\_WCHAR\_T  
453.povray: -DSPEC\_CPU\_WINDOWS\_ICL  
454.calculix: -DSPEC\_CPU\_NOZMODIFIER -Qlowercase  
481.wrf: -DSPEC\_CPU\_WINDOWS\_ICL

## Base Optimization Flags

C benchmarks:  
-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE  
C++ benchmarks:  
-fast -Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE  
Fortran benchmarks:  
-fast /F950000000 -link /FORCE:MULTIPLE  
Benchmarks using both Fortran and C:  
-fast /F950000000 -link /FORCE:MULTIPLE

## Peak Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99  
C++ benchmarks:  
icl -Qvc7.1

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## Peak Compiler Invocation (Continued)

Fortran benchmarks:  
ifort

Benchmarks using both Fortran and C:  
icl -Qvc7.1 -Qc99 ifort

## Peak Portability Flags

436.cactusADM: -Qlowercase /assume:underscore  
444.namd: -TP  
447.dealII: -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
-DBOOST\_NO\_INTRINSIC\_WCHAR\_T  
453.povray: -DSPEC\_CPU\_WINDOWS\_ICL  
454.calculix: -DSPEC\_CPU\_NOZMODIFIER -Qlowercase  
481.wrf: -DSPEC\_CPU\_WINDOWS\_ICL

## Peak Optimization Flags

C benchmarks:  
-Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

C++ benchmarks:  
-Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qcxx\_features  
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F950000000  
-link /FORCE:MULTIPLE

416.gamess: -fast /F950000000 -link /FORCE:MULTIPLE

434.zeusmp: Same as 410.bwaves

437.leslie3d: Same as 410.bwaves

459.GemsFDTD: Same as 410.bwaves

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

435.gromacs: -fast /F950000000 -link /FORCE:MULTIPLE

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## Peak Optimization Flags (Continued)

436.cactusADM: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F950000000  
-link /FORCE:MULTIPLE

454.calculix: Same as 436.cactusADM

481.wrf: Same as 435.gromacs

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/flags.20090714.00.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/flags.20090714.00.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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