



# SPEC® CFP2006 Result

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## Bull SAS

SPECfp®2006 = **9.22**

NovaScale T860 (1.60 GHz, Intel Xeon 5110)

SPECfp\_base2006 = **9.03**

CPU2006 license: 20

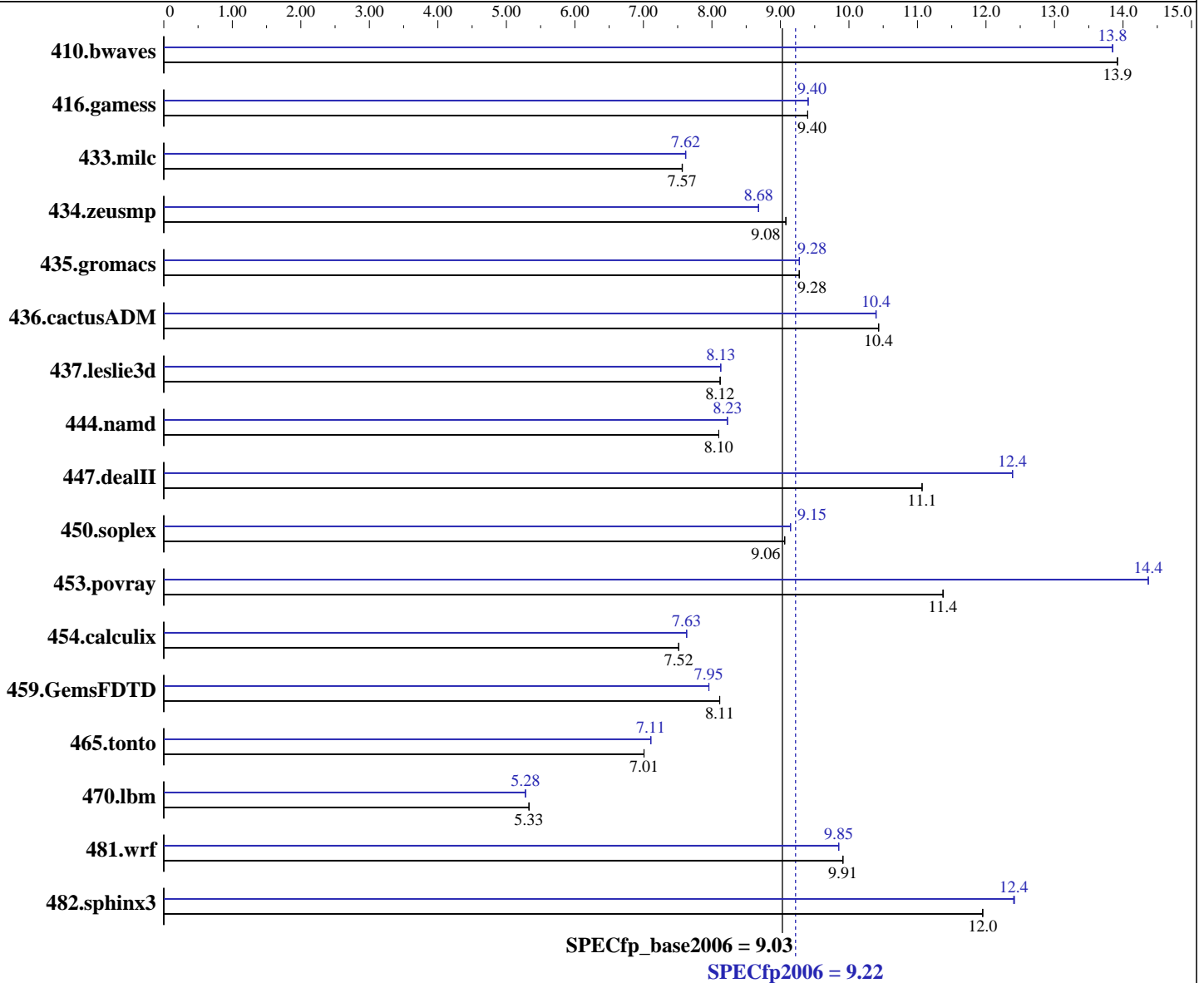
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon 5110  
 CPU Characteristics: 1.60 GHz, 1066MHz bus  
 CPU MHz: 1600  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1,2 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: Windows Server 2003 Enterprise X64 Edition  
 Compiler: Intel C++ Compiler 9.1 for 32-bit app.  
 Build 20061103Z Package ID: W\_CC\_C\_9.1.033  
 Intel Fortran Compiler 9.1 for 32-bit app.  
 Build 20061103Z Package ID: W\_FC\_C\_9.1.033  
 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: 12 GB (667 MHz ECC CL5 DDR2 FB-DIMM)  
Disk Subsystem: 2x36GB SAS 15000 rpm  
Other Hardware: None

Base Pointers: 32-bit  
Peak Pointers: 32-bit  
Other Software: MicroQuill SmartHeap Library 8.0 (shlW32M.lib)

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	977	13.9	976	13.9	<b>976</b>	<b>13.9</b>	981	13.8	<b>981</b>	<b>13.8</b>	982	13.8
416.gamess	<b>2083</b>	<b>9.40</b>	2083	9.40	2083	9.40	2082	9.40	2082	9.41	<b>2082</b>	<b>9.40</b>
433.milc	1213	7.57	<b>1213</b>	<b>7.57</b>	1214	7.56	1205	7.62	<b>1205</b>	<b>7.62</b>	1206	7.61
434.zeusmp	1002	9.08	1002	9.08	<b>1002</b>	<b>9.08</b>	1048	8.68	<b>1048</b>	<b>8.68</b>	1049	8.68
435.gromacs	770	9.28	770	9.27	<b>770</b>	<b>9.28</b>	<b>770</b>	<b>9.28</b>	770	9.28	770	9.27
436.cactusADM	<b>1145</b>	<b>10.4</b>	1145	10.4	1145	10.4	1149	10.4	<b>1149</b>	<b>10.4</b>	1150	10.4
437.leslie3d	1158	8.12	1157	8.12	<b>1158</b>	<b>8.12</b>	<b>1156</b>	<b>8.13</b>	1156	8.13	1157	8.13
444.namd	<b>990</b>	<b>8.10</b>	990	8.10	990	8.10	<b>975</b>	<b>8.23</b>	975	8.23	975	8.23
447.dealII	1034	11.1	1034	11.1	<b>1034</b>	<b>11.1</b>	923	12.4	<b>923</b>	<b>12.4</b>	924	12.4
450.soplex	920	9.06	<b>920</b>	<b>9.06</b>	920	9.06	912	9.15	<b>912</b>	<b>9.15</b>	912	9.15
453.povray	<b>468</b>	<b>11.4</b>	468	11.4	468	11.4	<b>370</b>	<b>14.4</b>	370	14.4	370	14.4
454.calculix	1098	7.52	<b>1098</b>	<b>7.52</b>	1098	7.52	1081	7.63	<b>1081</b>	<b>7.63</b>	1081	7.63
459.GemsFDTD	1308	8.11	1308	8.11	<b>1308</b>	<b>8.11</b>	1333	7.96	<b>1334</b>	<b>7.95</b>	1334	7.95
465.tonto	1404	7.01	<b>1404</b>	<b>7.01</b>	1404	7.01	1384	7.11	<b>1384</b>	<b>7.11</b>	1385	7.11
470.lbm	2576	5.33	2579	5.33	<b>2578</b>	<b>5.33</b>	2602	5.28	<b>2603</b>	<b>5.28</b>	2603	5.28
481.wrf	1127	9.91	<b>1127</b>	<b>9.91</b>	1127	9.91	1134	9.85	1134	9.85	<b>1134</b>	<b>9.85</b>
482.sphinx3	1631	12.0	1630	12.0	<b>1631</b>	<b>12.0</b>	1570	12.4	1571	12.4	<b>1571</b>	<b>12.4</b>

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

## General Notes

Other Configuration Notes  
/numproc=1 flags was added to boot.ini invoke  
uniprocessor environment



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

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