



# SPEC® CINT2006 Result

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## Bull SAS

NovaScale T810 (Intel Xeon processor X3220,2.4GHz)

SPECint®2006 = 15.9

SPECint\_base2006 = 15.2

CPU2006 license: 20

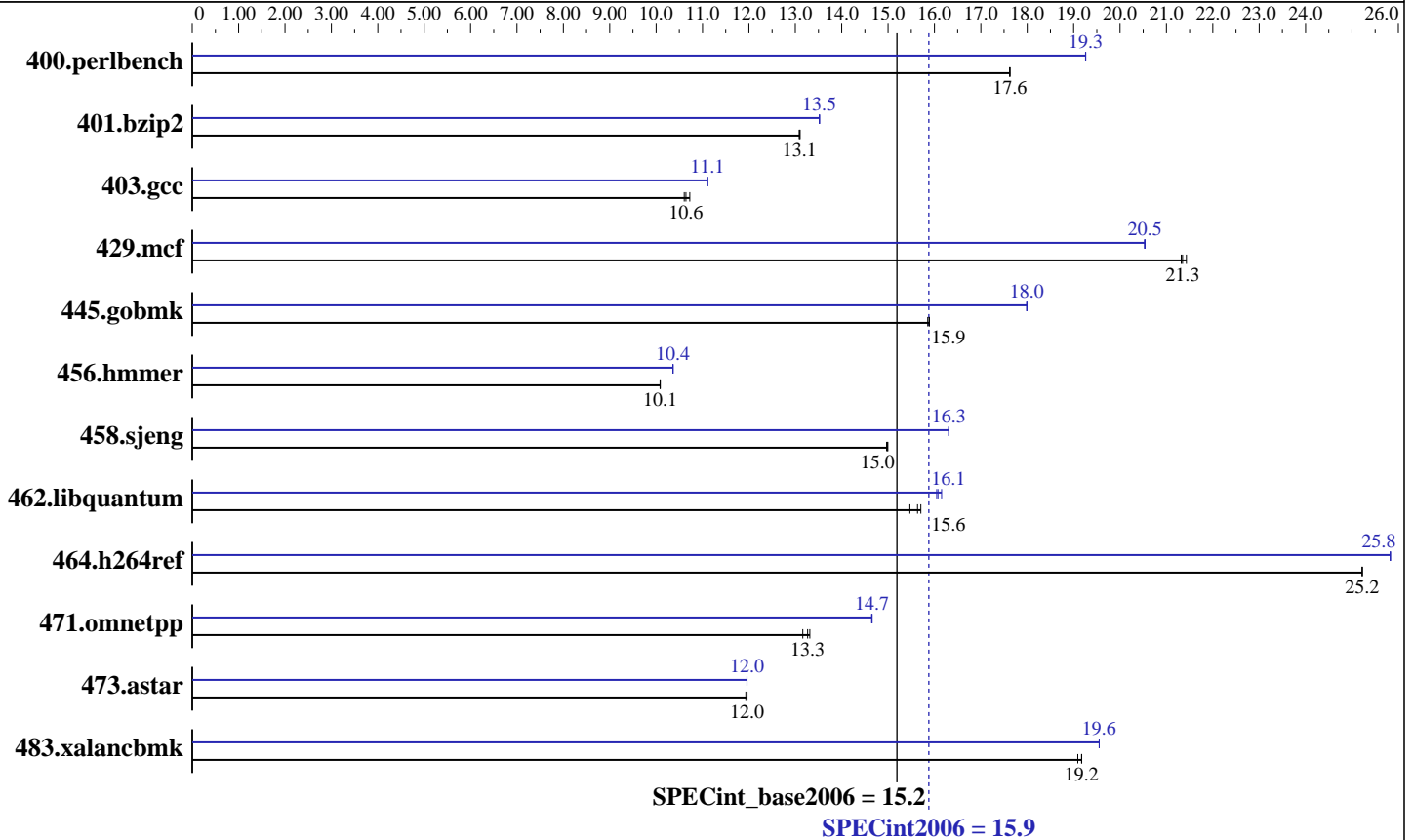
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon X3220  
 CPU Characteristics: 2.4GHz, 2x4 MB L2 shared, 1066 MHz system bus  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 4 cores/chip  
 CPU(s) orderable: 1 chip  
 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  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (2GB DIMMx4, PC2-5300E ECC CL5)  
 Disk Subsystem: 2x73 GB SAS, 10000RPM  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise Edition X64 Edition Service Pack 1  
 Compiler: Intel C++ Compiler for IA32 version 9.1  
 Package ID W\_CC\_9.1.033 Build no 20061103Z  
 Microsoft Visual Studio .NET 2003 (lib & linker)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: MicroQuill SmartHeap Library 8.0 (shIW32M.lib)



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	554	17.6	554	17.6	<b><u>554</u></b>	<b><u>17.6</u></b>	507	19.3	507	19.3	<b><u>507</u></b>	<b><u>19.3</u></b>
401.bzip2	737	13.1	<b><u>737</u></b>	<b><u>13.1</u></b>	736	13.1	714	13.5	714	13.5	<b><u>714</u></b>	<b><u>13.5</u></b>
403.gcc	759	10.6	<b><u>756</u></b>	<b><u>10.6</u></b>	751	10.7	725	11.1	725	11.1	<b><u>725</u></b>	<b><u>11.1</u></b>
429.mcf	<b><u>427</u></b>	<b><u>21.3</u></b>	428	21.3	426	21.4	444	20.5	<b><u>444</u></b>	<b><u>20.5</u></b>	444	20.5
445.gobmk	662	15.9	<b><u>660</u></b>	<b><u>15.9</u></b>	660	15.9	583	18.0	<b><u>583</u></b>	<b><u>18.0</u></b>	583	18.0
456.hammer	925	10.1	925	10.1	<b><u>925</u></b>	<b><u>10.1</u></b>	900	10.4	<b><u>900</u></b>	<b><u>10.4</u></b>	900	10.4
458.sjeng	808	15.0	807	15.0	<b><u>807</u></b>	<b><u>15.0</u></b>	<b><u>742</u></b>	<b><u>16.3</u></b>	742	16.3	742	16.3
462.libquantum	1339	15.5	<b><u>1325</u></b>	<b><u>15.6</u></b>	1319	15.7	1283	16.2	1291	16.0	<b><u>1289</u></b>	<b><u>16.1</u></b>
464.h264ref	878	25.2	<b><u>877</u></b>	<b><u>25.2</u></b>	877	25.2	857	25.8	857	25.8	<b><u>857</u></b>	<b><u>25.8</u></b>
471.omnetpp	475	13.2	<b><u>471</u></b>	<b><u>13.3</u></b>	469	13.3	<b><u>427</u></b>	<b><u>14.7</u></b>	426	14.7	427	14.6
473.astar	588	11.9	587	12.0	<b><u>587</u></b>	<b><u>12.0</u></b>	587	12.0	<b><u>587</u></b>	<b><u>12.0</u></b>	587	12.0
483.xalancbmk	361	19.1	360	19.2	<b><u>360</u></b>	<b><u>19.2</u></b>	353	19.6	353	19.6	<b><u>353</u></b>	<b><u>19.6</u></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 flag was added to boot.ini to invoke uniprocessor environment

## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99

C++ benchmarks:  
icl -Qvc7.1

## Base Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32

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## Base Portability Flags (Continued)

464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32

## Base Optimization Flags

C benchmarks:  
-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:  
-fast -Qcxx\_features /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

## Base Other Flags

C benchmarks:  
403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99

C++ benchmarks:  
icl -Qvc7.1

## Peak Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32

## Peak Optimization Flags

C benchmarks:  
-Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

C++ benchmarks:  
-Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qcxx\_features  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE



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## Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

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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