



# SPEC® CINT2006 Result

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## Bull SAS

NovaScale T810 (Intel Xeon processor 3040,1.86GHz)

SPECint®2006 = 12.6

SPECint\_base2006 = 12.0

CPU2006 license: 20

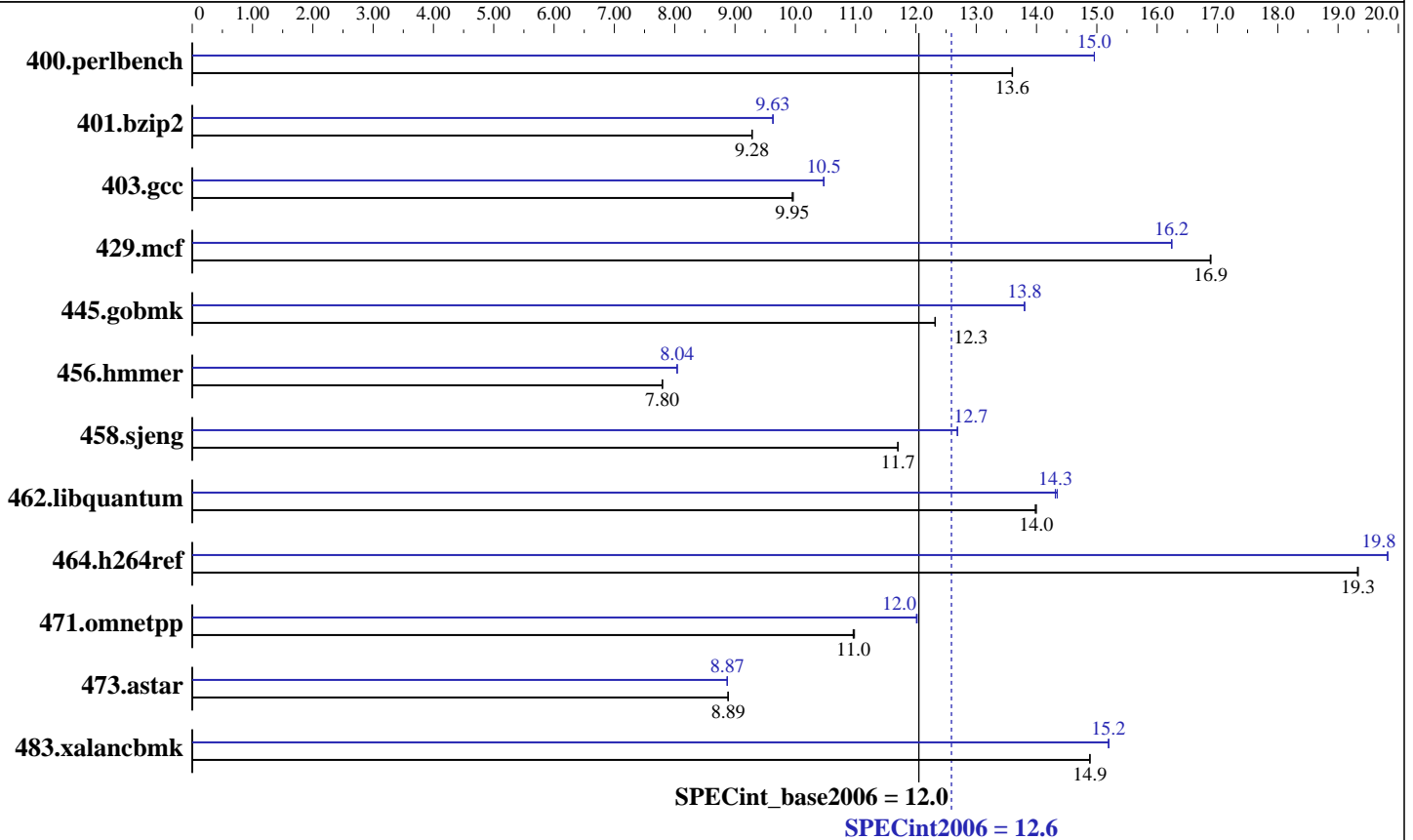
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon 3040  
 CPU Characteristics: 1.86 GHz, 4MB L2, 1066MHz bus  
 CPU MHz: 1860  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 2 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (2GB DIMMx4, PC2-5300E ECC CL5)  
 Disk Subsystem: 73 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\_C\_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	718	13.6	<b><u>718</u></b>	<b><u>13.6</u></b>	719	13.6	653	15.0	653	15.0	<b><u>653</u></b>	<b><u>15.0</u></b>
401.bzip2	1039	9.29	1040	9.28	<b><u>1040</u></b>	<b><u>9.28</u></b>	<b><u>1002</u></b>	<b><u>9.63</u></b>	1002	9.63	1002	9.63
403.gcc	808	9.97	<b><u>809</u></b>	<b><u>9.95</u></b>	809	9.95	768	10.5	<b><u>769</u></b>	<b><u>10.5</u></b>	769	10.5
429.mcf	<b><u>540</u></b>	<b><u>16.9</u></b>	540	16.9	540	16.9	561	16.2	562	16.2	<b><u>562</u></b>	<b><u>16.2</u></b>
445.gobmk	852	12.3	<b><u>851</u></b>	<b><u>12.3</u></b>	851	12.3	760	13.8	<b><u>760</u></b>	<b><u>13.8</u></b>	760	13.8
456.hmmer	<b><u>1197</u></b>	<b><u>7.80</u></b>	1197	7.80	1197	7.80	1160	8.04	1160	8.04	<b><u>1160</u></b>	<b><u>8.04</u></b>
458.sjeng	<b><u>1034</u></b>	<b><u>11.7</u></b>	1034	11.7	1034	11.7	954	12.7	954	12.7	<b><u>954</u></b>	<b><u>12.7</u></b>
462.libquantum	<b><u>1481</u></b>	<b><u>14.0</u></b>	1481	14.0	1482	14.0	1444	14.3	<b><u>1447</u></b>	<b><u>14.3</u></b>	1448	14.3
464.h264ref	1145	19.3	<b><u>1145</u></b>	<b><u>19.3</u></b>	1145	19.3	1116	19.8	<b><u>1116</u></b>	<b><u>19.8</u></b>	1117	19.8
471.omnetpp	569	11.0	<b><u>570</u></b>	<b><u>11.0</u></b>	570	11.0	520	12.0	<b><u>520</u></b>	<b><u>12.0</u></b>	520	12.0
473.astar	<b><u>790</u></b>	<b><u>8.89</u></b>	790	8.89	790	8.89	791	8.88	792	8.87	<b><u>791</u></b>	<b><u>8.87</u></b>
483.xalancbmk	464	14.9	464	14.9	<b><u>464</u></b>	<b><u>14.9</u></b>	<b><u>454</u></b>	<b><u>15.2</u></b>	454	15.2	454	15.2

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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