



# SPEC<sup>®</sup> CINT2006 Result

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## Bull SAS

NovaScale R460  
(Intel Xeon processor 5160,3.00GHz)

SPECint<sup>®</sup>\_rate2006 = 54.4

SPECint\_rate\_base2006 = 52.6

CPU2006 license: 20

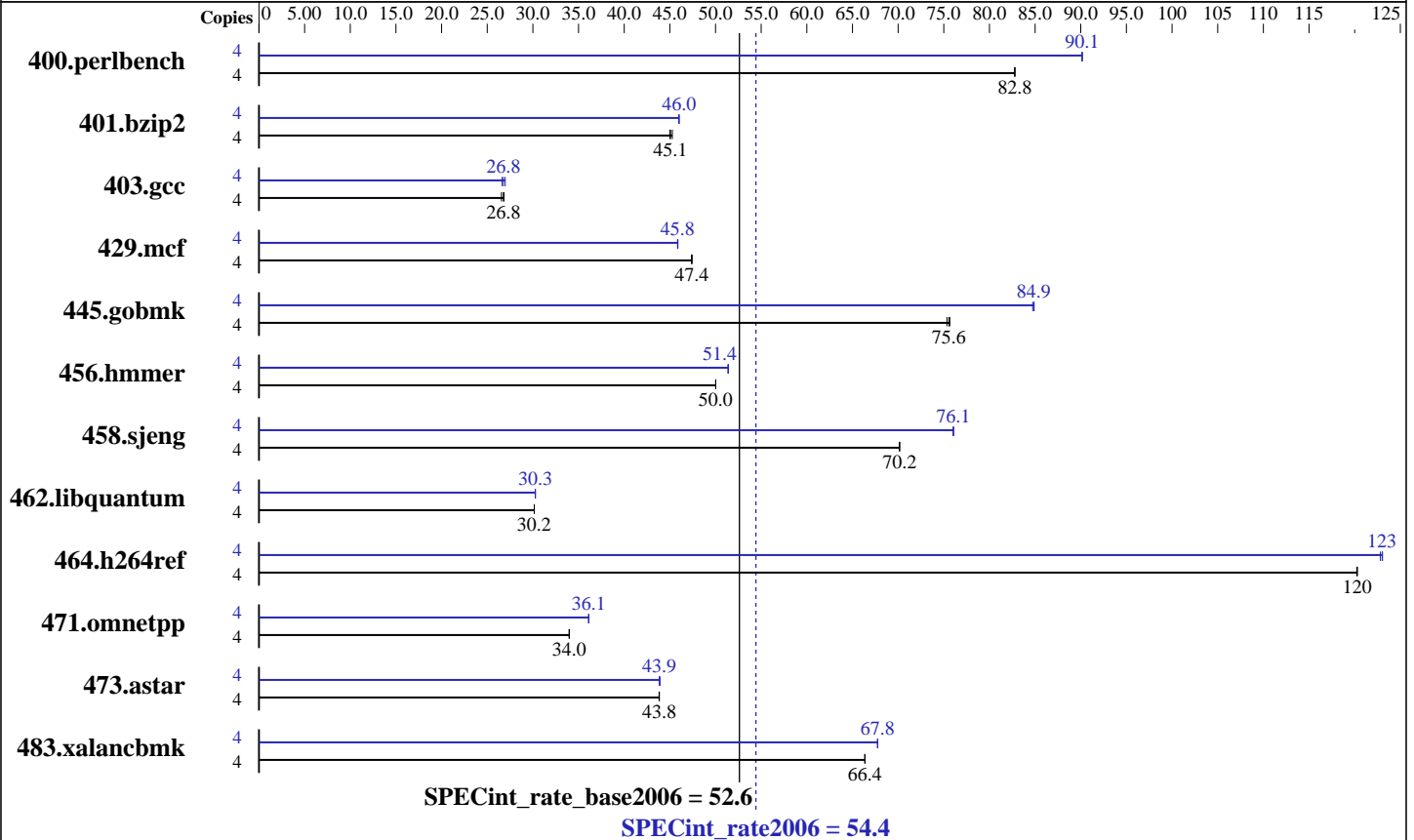
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon 5160  
 CPU Characteristics: 3.00 GHz, 4 MB L2, 1333 MHz system bus  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5  
 Disk Subsystem: 1x73 GB SAS, 15000 RPM  
 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							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	472	82.8	472	82.8	<u>472</u>	<u>82.8</u>	4	433	90.2	434	90.1	<u>434</u>	<u>90.1</u>
401.bzip2	4	858	45.0	<u>856</u>	<u>45.1</u>	853	45.3	4	839	46.0	839	46.0	<u>839</u>	<u>46.0</u>
403.gcc	4	<u>1203</u>	<u>26.8</u>	1200	26.8	1213	26.6	4	1209	26.6	<u>1202</u>	<u>26.8</u>	1194	27.0
429.mcf	4	770	47.4	769	47.4	<u>769</u>	<u>47.4</u>	4	795	45.9	<u>796</u>	<u>45.8</u>	796	45.8
445.gobmk	4	555	75.7	557	75.3	<u>555</u>	<u>75.6</u>	4	<u>495</u>	<u>84.9</u>	494	84.9	495	84.7
456.hammer	4	746	50.0	746	50.0	<u>746</u>	<u>50.0</u>	4	<u>726</u>	<u>51.4</u>	726	51.4	726	51.4
458.sjeng	4	690	70.2	<u>690</u>	<u>70.2</u>	690	70.1	4	<u>636</u>	<u>76.1</u>	636	76.1	637	76.0
462.libquantum	4	2749	30.1	2749	30.2	<u>2749</u>	<u>30.2</u>	4	2738	30.3	<u>2738</u>	<u>30.3</u>	2738	30.3
464.h264ref	4	<u>736</u>	<u>120</u>	736	120	736	120	4	<u>720</u>	<u>123</u>	721	123	719	123
471.omnetpp	4	736	34.0	<u>735</u>	<u>34.0</u>	735	34.0	4	692	36.1	<u>692</u>	<u>36.1</u>	692	36.1
473.astar	4	640	43.9	641	43.8	<u>641</u>	<u>43.8</u>	4	<u>640</u>	<u>43.9</u>	639	43.9	640	43.9
483.xalancbmk	4	416	66.3	416	66.4	<u>416</u>	<u>66.4</u>	4	407	67.8	<u>407</u>	<u>67.8</u>	407	67.7

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

## General Notes

The NovaScale R440 and the NovaScale R460 models are electronically equivalent.  
The results have been measured on a NovaScale R460 model.

## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99

C++ benchmarks:  
icl -Qvc7.1

## Base Portability Flags

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

## Base Optimization Flags

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

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## Base Optimization Flags (Continued)

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

## Peak Other Flags

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



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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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