



# SPEC® CINT2006 Result

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## Bull SAS

NovaScale R460  
(Intel Xeon processor 5130,2.00GHz)

SPECint®\_rate2006 = 42.4

SPECint\_rate\_base2006 = 40.8

CPU2006 license: 20

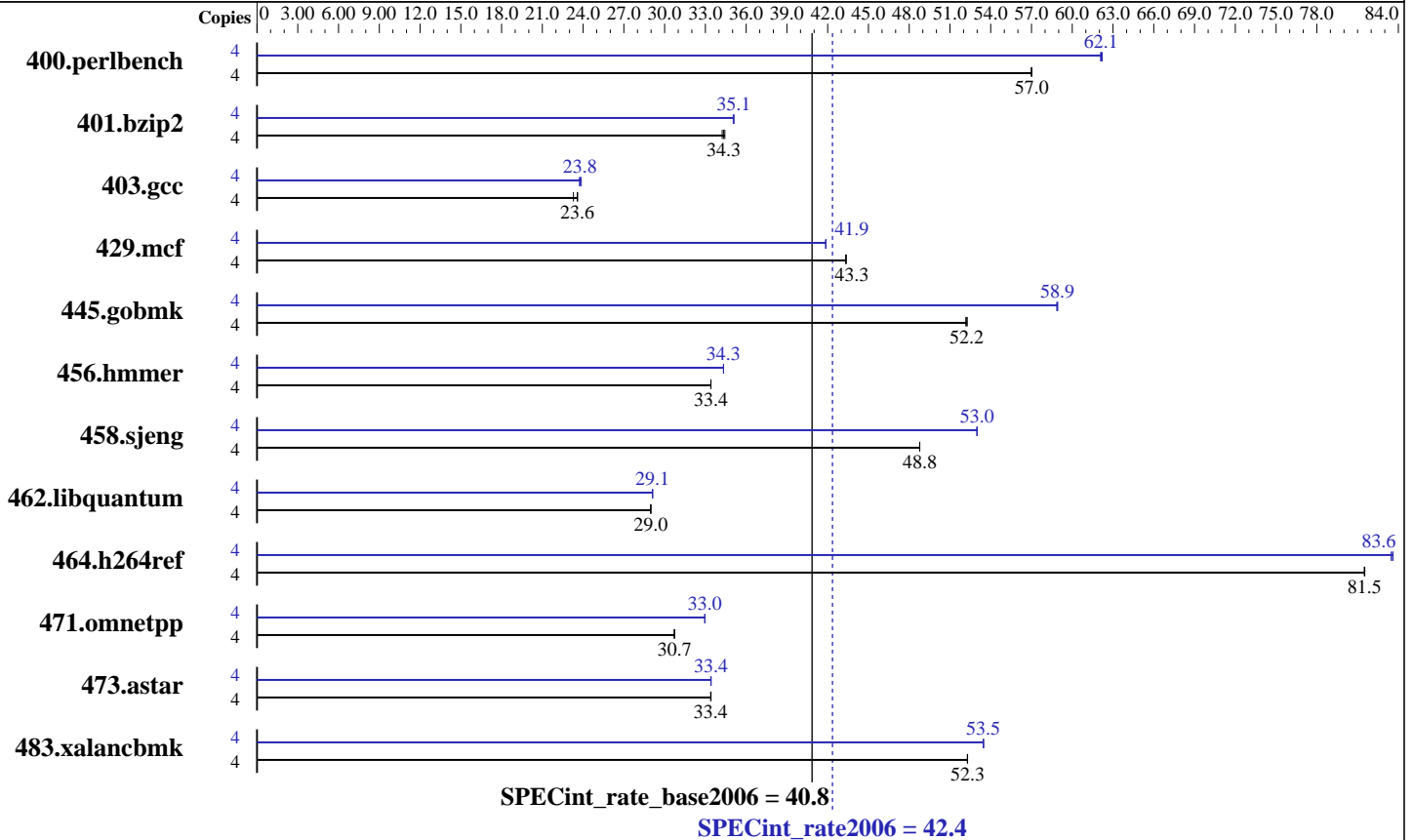
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon 5130  
 CPU Characteristics: 2.00 GHz, 4 MB L2, 1333 MHz system bus  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1 to 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	<b>685</b>	<b>57.0</b>	686	57.0	685	57.0	4	628	62.2	629	62.1	<b>629</b>	<b>62.1</b>
401.bzip2	4	1121	34.4	<b>1124</b>	<b>34.3</b>	1127	34.2	4	<b>1100</b>	<b>35.1</b>	1101	35.0	1100	35.1
403.gcc	4	<b>1366</b>	<b>23.6</b>	1383	23.3	1365	23.6	4	1349	23.9	1357	23.7	<b>1354</b>	<b>23.8</b>
429.mcf	4	842	43.3	<b>842</b>	<b>43.3</b>	841	43.4	4	<b>871</b>	<b>41.9</b>	872	41.8	871	41.9
445.gobmk	4	803	52.3	<b>803</b>	<b>52.2</b>	804	52.2	4	<b>712</b>	<b>58.9</b>	712	58.9	713	58.9
456.hammer	4	1117	33.4	<b>1117</b>	<b>33.4</b>	1117	33.4	4	1087	34.3	<b>1087</b>	<b>34.3</b>	1087	34.3
458.sjeng	4	992	48.8	992	48.8	<b>992</b>	<b>48.8</b>	4	<b>913</b>	<b>53.0</b>	914	53.0	913	53.0
462.libquantum	4	2860	29.0	<b>2860</b>	<b>29.0</b>	2861	29.0	4	<b>2847</b>	<b>29.1</b>	2847	29.1	2847	29.1
464.h264ref	4	<b>1086</b>	<b>81.5</b>	1086	81.5	1086	81.5	4	1059	83.6	1061	83.5	<b>1059</b>	<b>83.6</b>
471.omnetpp	4	813	30.7	<b>814</b>	<b>30.7</b>	814	30.7	4	<b>758</b>	<b>33.0</b>	758	33.0	759	33.0
473.astar	4	841	33.4	840	33.4	<b>841</b>	<b>33.4</b>	4	840	33.4	841	33.4	<b>840</b>	<b>33.4</b>
483.xalancbmk	4	<b>528</b>	<b>52.3</b>	528	52.3	528	52.3	4	<b>516</b>	<b>53.5</b>	516	53.4	516	53.5

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 questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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