



# SPEC® CINT2006 Result

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## Bull SAS

SPECint®\_rate2006 = 72.9

NovaScale R440  
(Intel Xeon processor E5345,2.33GHz)

SPECint\_rate\_base2006 = 70.7

CPU2006 license: 20

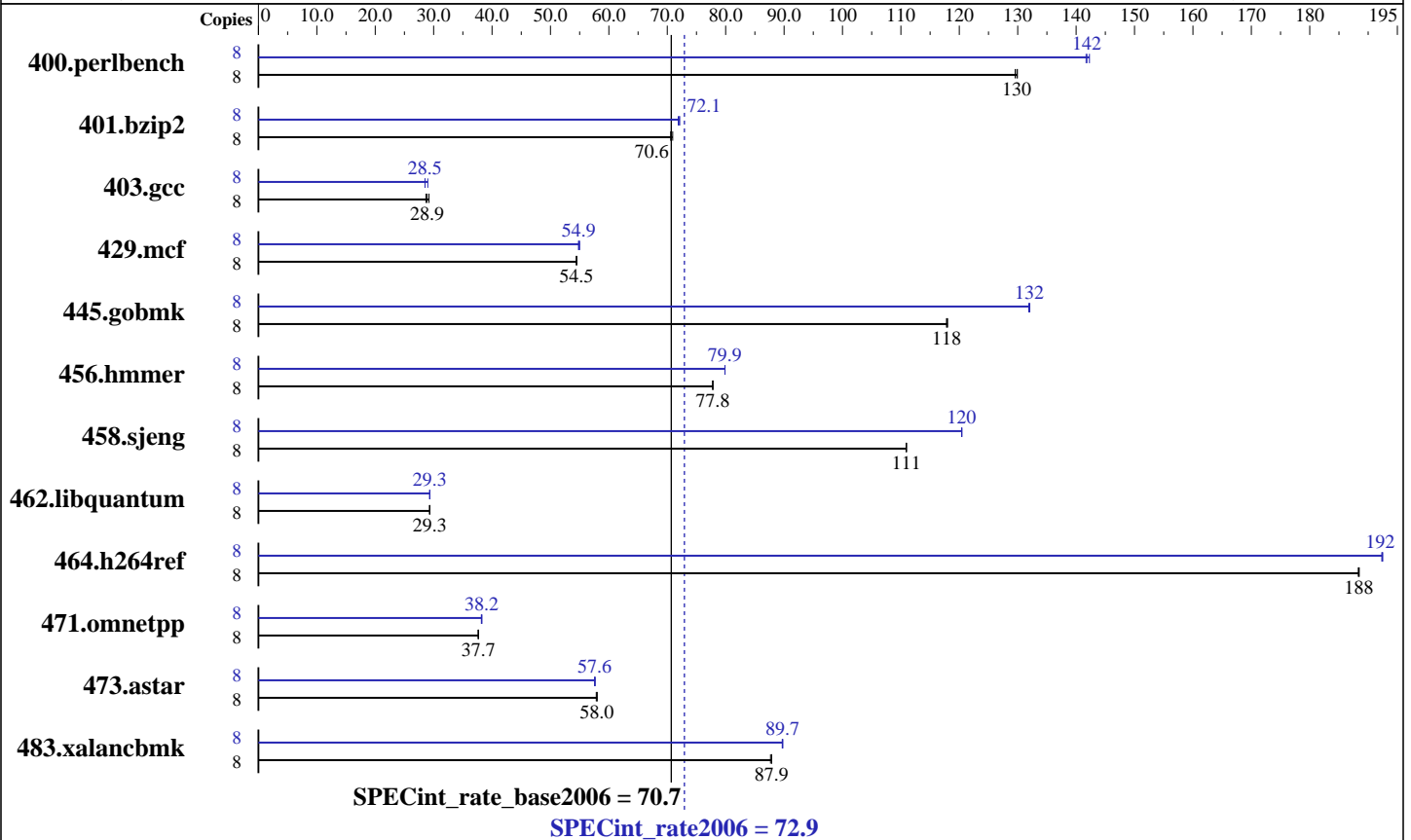
Test date: Apr-2007

Test sponsor: Bull SAS

Hardware Availability: Mar-2007

Tested by: Bull SAS

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon E5345  
 CPU Characteristics: 2.33 GHz, 8MB L2, 1333MHz bus  
 CPU MHz: 2330  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1 to 2 chips  
 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: 24 GB (2GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)  
 Disk Subsystem: 73 GB SAS, 10000RPM  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 R2 Enterprise X64 Edition Service Pack1  
 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	8	<b>602</b>	<b>130</b>	603	130	601	130	8	549	142	552	142	<b>551</b>	<b>142</b>
401.bzip2	8	1093	70.6	1088	70.9	<b>1093</b>	<b>70.6</b>	8	<b>1071</b>	<b>72.1</b>	1071	72.1	1074	71.9
403.gcc	8	2205	29.2	2246	28.7	<b>2229</b>	<b>28.9</b>	8	2258	28.5	<b>2257</b>	<b>28.5</b>	2221	29.0
429.mcf	8	1340	54.4	<b>1340</b>	<b>54.5</b>	1338	54.5	8	1331	54.8	1326	55.0	<b>1330</b>	<b>54.9</b>
445.gobmk	8	712	118	711	118	<b>712</b>	<b>118</b>	8	636	132	635	132	<b>636</b>	<b>132</b>
456.hammer	8	959	77.8	<b>959</b>	<b>77.8</b>	960	77.8	8	934	79.9	934	79.9	<b>934</b>	<b>79.9</b>
458.sjeng	8	873	111	873	111	<b>873</b>	<b>111</b>	8	804	120	804	120	<b>804</b>	<b>120</b>
462.libquantum	8	5654	29.3	<b>5654</b>	<b>29.3</b>	5650	29.3	8	5649	29.3	<b>5651</b>	<b>29.3</b>	5651	29.3
464.h264ref	8	<b>940</b>	<b>188</b>	940	188	939	188	8	920	192	920	193	<b>920</b>	<b>192</b>
471.omnetpp	8	1329	37.6	<b>1328</b>	<b>37.7</b>	1327	37.7	8	1307	38.2	<b>1308</b>	<b>38.2</b>	1310	38.2
473.astar	8	<b>969</b>	<b>58.0</b>	968	58.0	971	57.8	8	976	57.6	974	57.7	<b>975</b>	<b>57.6</b>
483.xalancbmk	8	<b>628</b>	<b>87.9</b>	628	87.9	630	87.7	8	616	89.7	<b>615</b>	<b>89.7</b>	615	89.8

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 R440 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



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## 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

## Peak Other Flags

C benchmarks:

Continued on next page



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## Peak Other Flags (Continued)

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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