



# SPEC® CINT2006 Result

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## Bull SAS

NovaScale R460  
(Intel Xeon processor E5320,1.86GHz)

SPECint®2006 = 11.9

SPECint\_base2006 = 11.4

CPU2006 license: 20

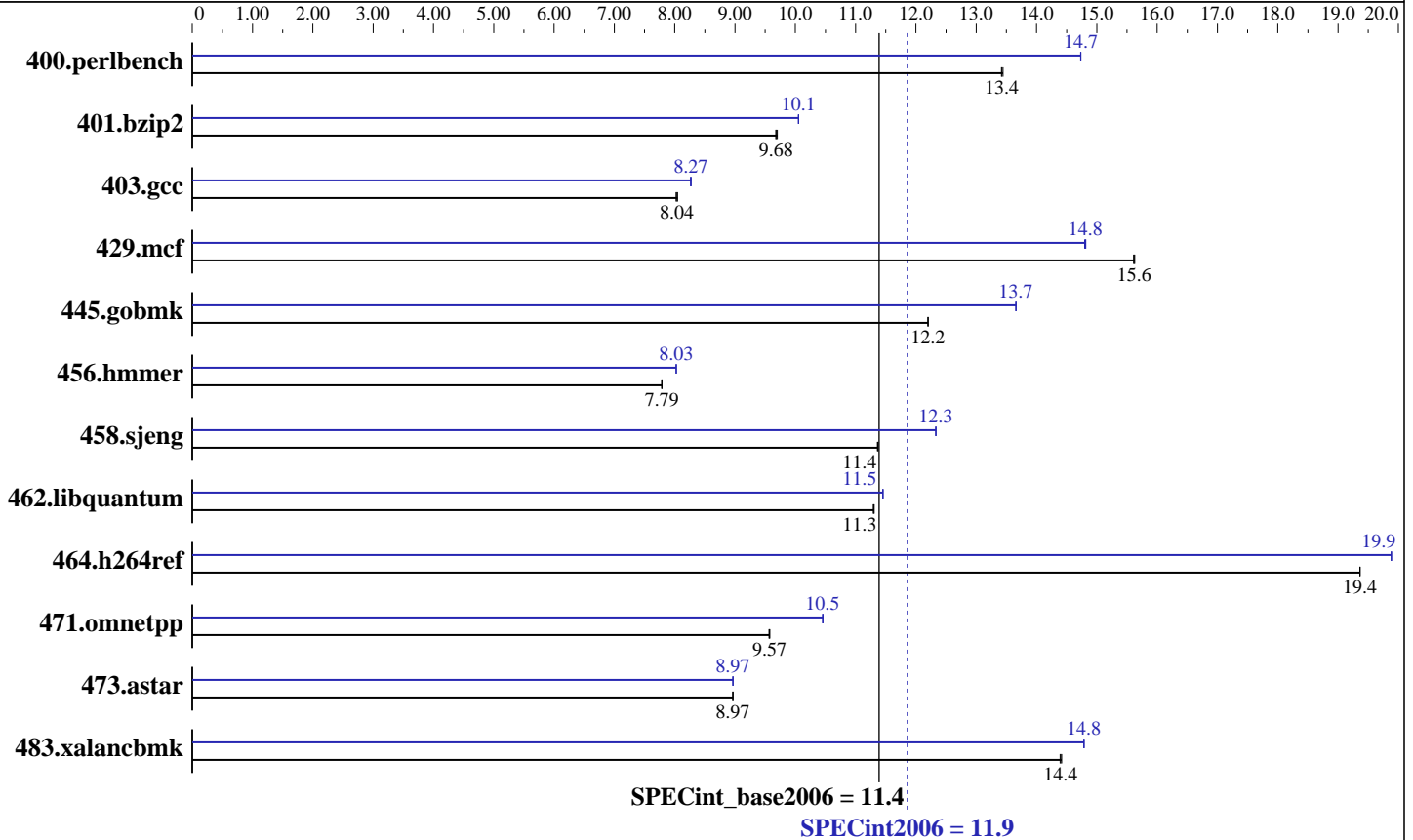
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon E5320  
 CPU Characteristics: 1.86 GHz, 8 MB L2, 1066 MHz bus  
 CPU MHz: 1860  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 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: 12 GB (12x1 GB) FB-DIMM PC2-5300F ECC CL5  
 Disk Subsystem: 1x73 GB SAS, 10000 RPM  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise 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	727	13.4	<b><u>728</u></b>	<b><u>13.4</u></b>	728	13.4	663	14.7	663	14.7	<b><u>663</u></b>	<b><u>14.7</u></b>
401.bzip2	995	9.70	997	9.68	<b><u>997</u></b>	<b><u>9.68</u></b>	960	10.1	960	10.1	<b><u>960</u></b>	<b><u>10.1</u></b>
403.gcc	1000	8.05	<b><u>1002</u></b>	<b><u>8.04</u></b>	1003	8.02	973	8.27	<b><u>974</u></b>	<b><u>8.27</u></b>	974	8.26
429.mcf	<b><u>584</u></b>	<b><u>15.6</u></b>	584	15.6	584	15.6	616	14.8	616	14.8	<b><u>616</u></b>	<b><u>14.8</u></b>
445.gobmk	<b><u>860</u></b>	<b><u>12.2</u></b>	860	12.2	860	12.2	768	13.7	<b><u>768</u></b>	<b><u>13.7</u></b>	768	13.7
456.hammer	<b><u>1198</u></b>	<b><u>7.79</u></b>	1198	7.79	1198	7.79	<b><u>1163</u></b>	<b><u>8.03</u></b>	1163	8.03	1162	8.03
458.sjeng	1065	11.4	<b><u>1064</u></b>	<b><u>11.4</u></b>	1064	11.4	981	12.3	981	12.3	<b><u>981</u></b>	<b><u>12.3</u></b>
462.libquantum	1835	11.3	<b><u>1834</u></b>	<b><u>11.3</u></b>	1832	11.3	1809	11.5	<b><u>1809</u></b>	<b><u>11.5</u></b>	1809	11.5
464.h264ref	1143	19.4	1143	19.4	<b><u>1143</u></b>	<b><u>19.4</u></b>	<b><u>1113</u></b>	<b><u>19.9</u></b>	1113	19.9	1113	19.9
471.omnetpp	653	9.56	<b><u>653</u></b>	<b><u>9.57</u></b>	653	9.58	<b><u>598</u></b>	<b><u>10.5</u></b>	598	10.5	598	10.5
473.astar	783	8.96	783	8.97	<b><u>783</u></b>	<b><u>8.97</u></b>	<b><u>783</u></b>	<b><u>8.97</u></b>	783	8.97	783	8.97
483.xalancbmk	479	14.4	<b><u>479</u></b>	<b><u>14.4</u></b>	479	14.4	467	14.8	<b><u>467</u></b>	<b><u>14.8</u></b>	467	14.8

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

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

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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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