



# SPEC® CINT2006 Result

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## Bull SAS

NovaScale T820  
(Intel Xeon processor 3040, 1.86GHz)

SPECint®\_rate2006 = 20.9

SPECint\_rate\_base2006 = 20.2

CPU2006 license: 20

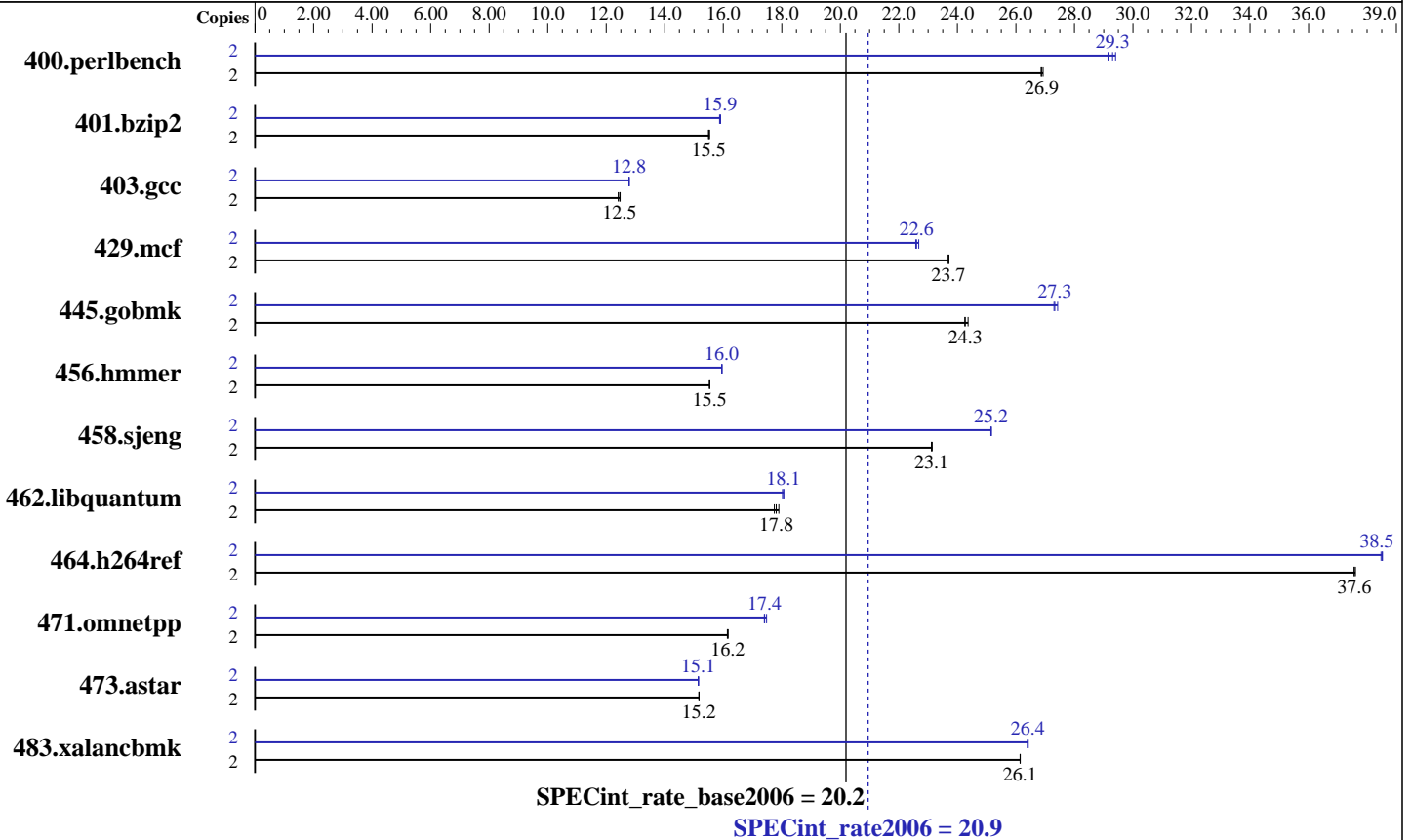
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Feb-2007

Software Availability: Dec-2006



### Hardware

CPU Name: Intel Xeon 3040  
 CPU Characteristics: 1.86 GHz, 4 MB L2, 1066 MHz system bus  
 CPU MHz: 1860  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 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: 4 GB (4x1 GB) PC2-4200E ECC CL4  
 Disk Subsystem: 1x80 GB SATA2, 7200 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	2	<u>727</u>	<u>26.9</u>	726	26.9	727	26.9	2	670	29.1	665	29.4	<u>667</u>	<u>29.3</u>
401.bzip2	2	1242	15.5	1245	15.5	<u>1245</u>	<u>15.5</u>	2	1213	15.9	<u>1214</u>	<u>15.9</u>	1216	15.9
403.gcc	2	1297	12.4	<u>1292</u>	<u>12.5</u>	1290	12.5	2	1260	12.8	1259	12.8	<u>1260</u>	<u>12.8</u>
429.mcf	2	771	23.7	769	23.7	<u>770</u>	<u>23.7</u>	2	<u>807</u>	<u>22.6</u>	808	22.6	804	22.7
445.gobmk	2	861	24.4	<u>864</u>	<u>24.3</u>	865	24.3	2	765	27.4	<u>768</u>	<u>27.3</u>	768	27.3
456.hammer	2	1202	15.5	1201	15.5	<u>1201</u>	<u>15.5</u>	2	1170	16.0	<u>1170</u>	<u>16.0</u>	1170	16.0
458.sjeng	2	<u>1047</u>	<u>23.1</u>	1047	23.1	1046	23.1	2	<u>962</u>	<u>25.2</u>	962	25.1	962	25.2
462.libquantum	2	2335	17.7	<u>2327</u>	<u>17.8</u>	2315	17.9	2	2299	18.0	<u>2295</u>	<u>18.1</u>	2294	18.1
464.h264ref	2	1178	37.6	1177	37.6	<u>1178</u>	<u>37.6</u>	2	<u>1149</u>	<u>38.5</u>	1150	38.5	1149	38.5
471.omnetpp	2	775	16.1	<u>774</u>	<u>16.2</u>	773	16.2	2	<u>718</u>	<u>17.4</u>	718	17.4	715	17.5
473.astar	2	<u>925</u>	<u>15.2</u>	925	15.2	926	15.2	2	926	15.2	927	15.1	<u>927</u>	<u>15.1</u>
483.xalancbmk	2	528	26.1	528	26.1	<u>528</u>	<u>26.1</u>	2	522	26.4	<u>523</u>	<u>26.4</u>	523	26.4

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

## 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  
C++ benchmarks:  
-fast -Qcxx\_features /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE



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## 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

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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