



# SPEC® CINT2006 Result

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## Bull SAS

**SPECint®2006 = 10.2**

NovaScale R480 (3.20 GHz, Intel Xeon 7130M)

**SPECint\_base2006 = 9.70**

CPU2006 license: 20

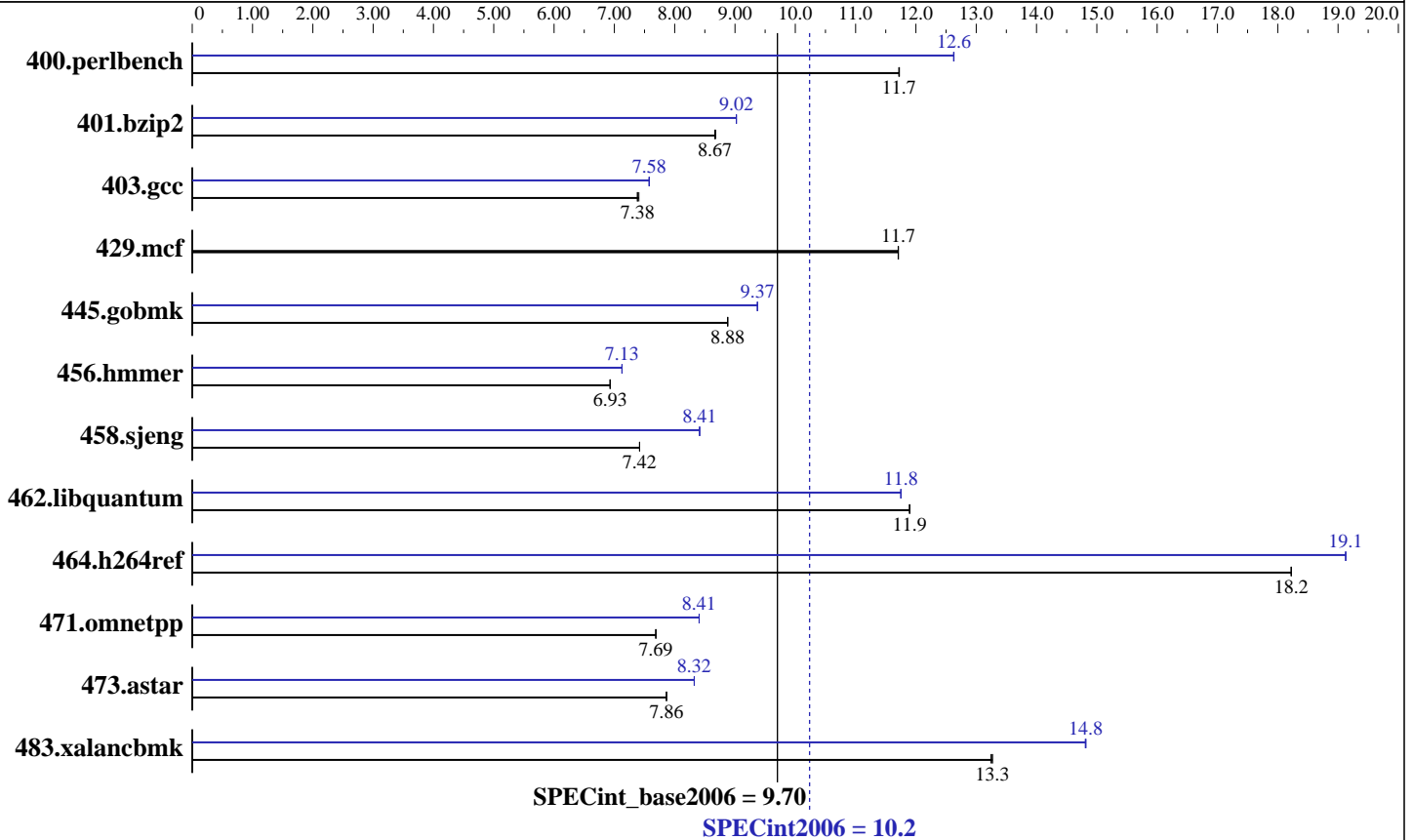
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon 7130M  
 CPU Characteristics: 3.2GHz, 800MHz bus  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1,2,4 chips  
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per core  
 Secondary Cache: 1 MB I+D on chip per core  
 L3 Cache: 8 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 32 GB (667 MHz ECC CL5 DDR2 FB-DIMM)  
 Disk Subsystem: 2x36GB SAS 15000 rpm  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise X64 Edition  
 Compiler: Intel C++ Compiler 9.1 for 32-bit  
 Build 20061103Z Package ID: W\_CC\_P\_9.1.033  
 Microsoft Visual Studio .NET 2003 (libraries)  
 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	833	11.7	834	11.7	<b>834</b>	<b>11.7</b>	<b>774</b>	<b>12.6</b>	773	12.6	774	12.6
401.bzip2	1112	8.68	1114	8.67	<b>1113</b>	<b>8.67</b>	1070	9.02	1069	9.02	<b>1070</b>	<b>9.02</b>
403.gcc	1087	7.41	<b>1090</b>	<b>7.38</b>	1090	7.38	1062	7.58	<b>1062</b>	<b>7.58</b>	1063	7.57
429.mcf	<b>779</b>	<b>11.7</b>	779	11.7	779	11.7	<b>779</b>	<b>11.7</b>	779	11.7	779	11.7
445.gobmk	<b>1181</b>	<b>8.88</b>	1181	8.88	1181	8.88	<b>1119</b>	<b>9.37</b>	1119	9.37	1119	9.37
456.hammer	1346	6.93	<b>1346</b>	<b>6.93</b>	1346	6.93	<b>1309</b>	<b>7.13</b>	1309	7.13	1309	7.13
458.sjeng	1631	7.42	<b>1631</b>	<b>7.42</b>	1631	7.42	1438	8.41	<b>1438</b>	<b>8.41</b>	1438	8.41
462.libquantum	1742	11.9	1741	11.9	<b>1742</b>	<b>11.9</b>	1763	11.8	<b>1763</b>	<b>11.8</b>	1763	11.7
464.h264ref	<b>1214</b>	<b>18.2</b>	1214	18.2	1214	18.2	<b>1157</b>	<b>19.1</b>	1157	19.1	1157	19.1
471.omnetpp	<b>813</b>	<b>7.69</b>	813	7.69	813	7.69	743	8.41	<b>744</b>	<b>8.41</b>	744	8.41
473.astar	<b>893</b>	<b>7.86</b>	893	7.86	893	7.86	843	8.32	<b>843</b>	<b>8.32</b>	843	8.32
483.xalancbmk	521	13.2	<b>520</b>	<b>13.3</b>	520	13.3	466	14.8	466	14.8	<b>466</b>	<b>14.8</b>

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 T880 and the NovaScale R480 models are electronically equivalent.  
The results have been measured on a NovaScale R480 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:

400.perlbench: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F512000000  
shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: Same as 400.perlbench

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## Peak Optimization Flags (Continued)

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmr: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

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

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