



# SPEC® CINT2006 Result

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## Bull SAS

## SPECint®2006 = 11.2

### NovaScale T880 (3.40 GHz, Intel Xeon 7140M)

## SPECint\_base2006 = 10.6

CPU2006 license: 3

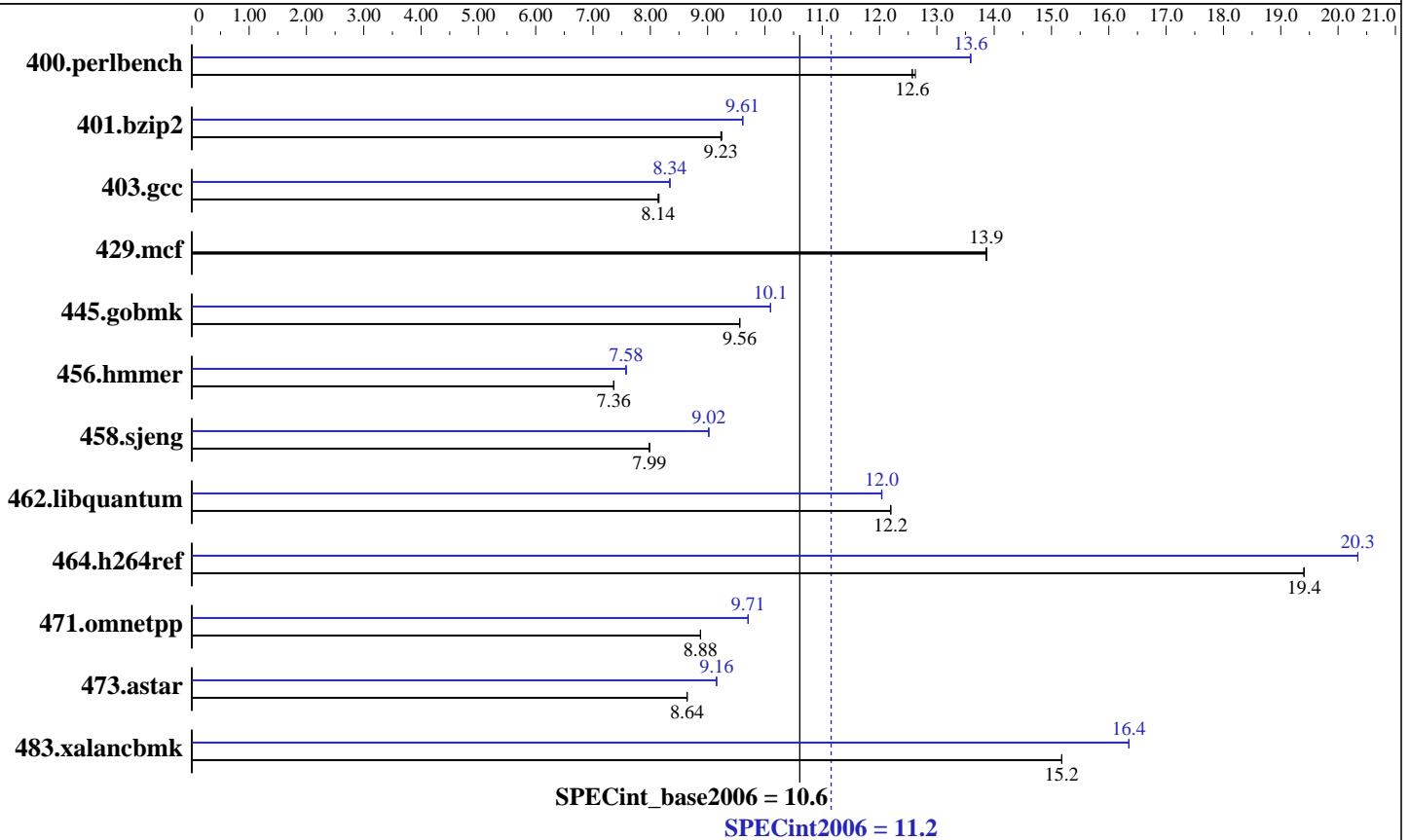
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon 7140M  
 CPU Characteristics: 3.4GHz, 800MHz bus  
 CPU MHz: 3400  
 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: 16 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 16 GB (16X1GB 1Rx4 PC2-3200R-333 400MHz DDR2)  
 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	774	12.6	<u>777</u>	<u>12.6</u>	777	12.6	719	13.6	<u>719</u>	<u>13.6</u>	719	13.6
401.bzip2	1044	9.25	1045	9.23	<u>1045</u>	<u>9.23</u>	1004	9.62	1004	9.61	<u>1004</u>	<u>9.61</u>
403.gcc	987	8.15	<u>989</u>	<u>8.14</u>	989	8.14	965	8.34	<u>965</u>	<u>8.34</u>	965	8.34
429.mcf	<u>658</u>	<u>13.9</u>	658	13.9	658	13.9	<u>658</u>	<u>13.9</u>	658	13.9	658	13.9
445.gobmk	<u>1097</u>	<u>9.56</u>	1097	9.56	1097	9.56	1039	10.1	<u>1039</u>	<u>10.1</u>	1039	10.1
456.hammer	<u>1267</u>	<u>7.36</u>	1267	7.36	1267	7.36	1231	7.58	<u>1231</u>	<u>7.58</u>	1231	7.58
458.sjeng	1515	7.98	<u>1515</u>	<u>7.99</u>	1515	7.99	1341	9.02	<u>1341</u>	<u>9.02</u>	1342	9.02
462.libquantum	<u>1699</u>	<u>12.2</u>	1699	12.2	1699	12.2	<u>1721</u>	<u>12.0</u>	1721	12.0	1722	12.0
464.h264ref	1140	19.4	1140	19.4	<u>1140</u>	<u>19.4</u>	1088	20.3	1088	20.3	<u>1088</u>	<u>20.3</u>
471.omnetpp	704	8.88	<u>704</u>	<u>8.88</u>	704	8.87	644	9.71	<u>644</u>	<u>9.71</u>	644	9.70
473.astar	<u>812</u>	<u>8.64</u>	812	8.64	812	8.64	767	9.16	<u>767</u>	<u>9.16</u>	767	9.15
483.xalancbmk	<u>455</u>	<u>15.2</u>	455	15.2	455	15.2	422	16.4	<u>422</u>	<u>16.4</u>	422	16.3

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.hmmer: 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 other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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