



# SPEC® CINT2006 Result

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## Bull SAS

SPECint®2006 = **8.19**

NovaScale R480 (2.60 GHz, Intel Xeon 7110M)

SPECint\_base2006 = **7.75**

CPU2006 license: 20

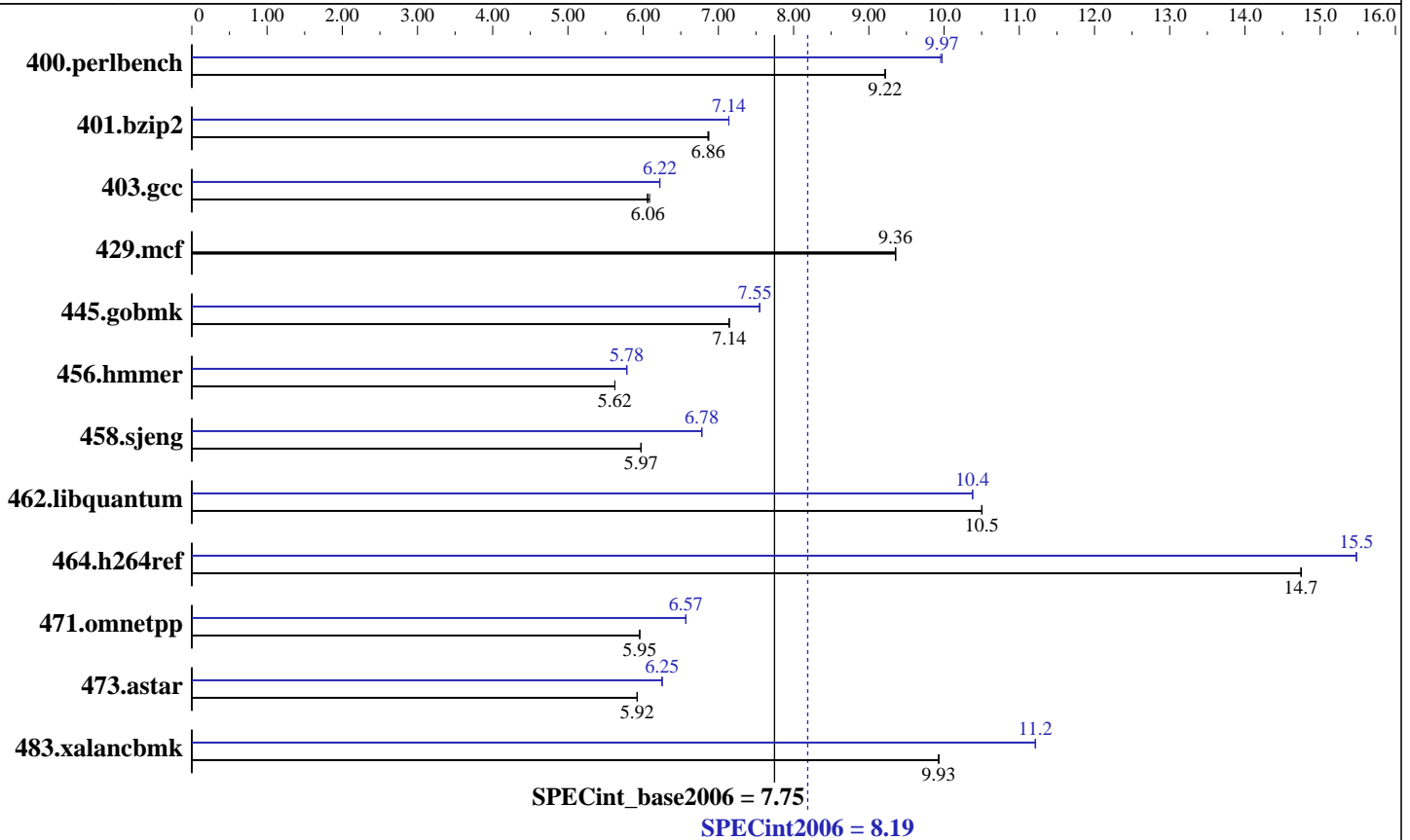
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Apr-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon 7110M  
 CPU Characteristics: 2.6 GHz, 800 MHz bus  
 CPU MHz: 2600  
 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: 4 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 32 GB (16x2 GB) DDR2 400 PC2-3200R-333  
 Disk Subsystem: 2x36 GB SAS 15000 RPM  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise X64 Edition  
 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	1059	9.22	1060	9.21	<b>1060</b>	<b>9.22</b>	980	9.97	<b>980</b>	<b>9.97</b>	981	9.95
401.bzip2	1404	6.87	<b>1406</b>	<b>6.86</b>	1406	6.86	1352	7.14	1352	7.14	<b>1352</b>	<b>7.14</b>
403.gcc	1323	6.09	<b>1328</b>	<b>6.06</b>	1329	6.06	<b>1294</b>	<b>6.22</b>	1294	6.22	1295	6.22
429.mcf	<b>975</b>	<b>9.36</b>	975	9.36	975	9.35	<b>975</b>	<b>9.36</b>	975	9.36	975	9.35
445.gobmk	1469	7.14	1468	7.15	<b>1468</b>	<b>7.14</b>	<b>1390</b>	<b>7.55</b>	1390	7.55	1390	7.55
456.hammer	<b>1659</b>	<b>5.62</b>	1659	5.62	1659	5.62	1613	5.78	1613	5.78	<b>1613</b>	<b>5.78</b>
458.sjeng	2026	5.97	2026	5.97	<b>2026</b>	<b>5.97</b>	<b>1785</b>	<b>6.78</b>	1785	6.78	1785	6.78
462.libquantum	1973	10.5	<b>1973</b>	<b>10.5</b>	1973	10.5	<b>1996</b>	<b>10.4</b>	1996	10.4	1996	10.4
464.h264ref	1500	14.7	1501	14.7	<b>1501</b>	<b>14.7</b>	1429	15.5	<b>1429</b>	<b>15.5</b>	1430	15.5
471.omnetpp	<b>1050</b>	<b>5.95</b>	1050	5.95	1050	5.95	<b>952</b>	<b>6.57</b>	952	6.57	952	6.57
473.astar	1186	5.92	<b>1186</b>	<b>5.92</b>	1186	5.92	1123	6.25	1123	6.25	<b>1123</b>	<b>6.25</b>
483.xalancbmk	695	9.93	695	9.93	<b>695</b>	<b>9.93</b>	615	11.2	<b>615</b>	<b>11.2</b>	615	11.2

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  
Hyper-Threading technology was disabled in the Bios.

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



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## 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

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

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