



SPEC® CINT2006 Result

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Bull SAS

SPECint®2006 = 12.7

NovaScale B260 (Intel Xeon processor 5130,2.0GHz)

SPECint_base2006 = 12.2

CPU2006 license: 20

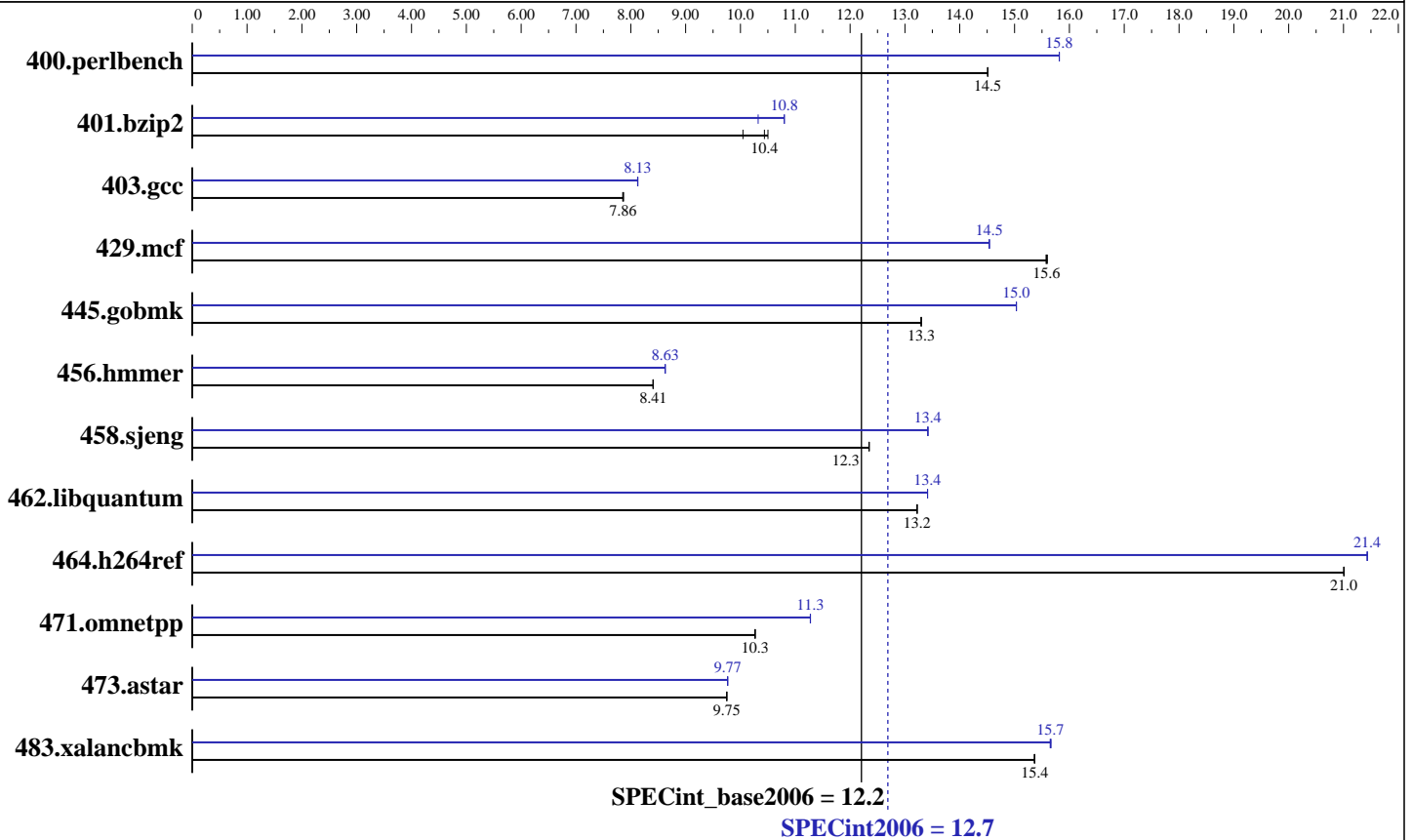
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Dec-2006

Hardware Availability: Dec-2006

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 2.0 GHz, 4MB L2, 1333MHz bus
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 to 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (2GB DIMMx4, FB-DIMM PC2-5300F ECC CL5)
 Disk Subsystem: 73 GB SAS, 10000RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise Edition (32 bits) Service Pack1
 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	673	14.5	673	14.5	<u>673</u>	<u>14.5</u>	618	15.8	<u>618</u>	<u>15.8</u>	618	15.8
401.bzip2	<u>925</u>	<u>10.4</u>	961	10.0	919	10.5	894	10.8	935	10.3	<u>894</u>	<u>10.8</u>
403.gcc	1023	7.87	1025	7.85	<u>1024</u>	<u>7.86</u>	<u>991</u>	<u>8.13</u>	990	8.13	991	8.12
429.mcf	585	15.6	<u>585</u>	<u>15.6</u>	586	15.6	627	14.5	627	14.5	<u>627</u>	<u>14.5</u>
445.gobmk	<u>789</u>	<u>13.3</u>	789	13.3	789	13.3	698	15.0	<u>698</u>	<u>15.0</u>	698	15.0
456.hammer	<u>1110</u>	<u>8.41</u>	1110	8.41	1110	8.41	1082	8.63	<u>1081</u>	<u>8.63</u>	1081	8.63
458.sjeng	<u>980</u>	<u>12.3</u>	980	12.3	980	12.3	902	13.4	<u>902</u>	<u>13.4</u>	902	13.4
462.libquantum	1567	13.2	<u>1567</u>	<u>13.2</u>	1567	13.2	<u>1545</u>	<u>13.4</u>	1545	13.4	1545	13.4
464.h264ref	1053	21.0	<u>1053</u>	<u>21.0</u>	1054	21.0	1032	21.4	<u>1032</u>	<u>21.4</u>	1033	21.4
471.omnetpp	609	10.3	<u>609</u>	<u>10.3</u>	609	10.3	554	11.3	554	11.3	<u>554</u>	<u>11.3</u>
473.astar	720	9.75	<u>720</u>	<u>9.75</u>	720	9.75	719	9.77	719	9.77	<u>719</u>	<u>9.77</u>
483.xalancbmk	449	15.4	<u>449</u>	<u>15.4</u>	449	15.4	440	15.7	441	15.6	<u>441</u>	<u>15.7</u>

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

Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
473.astar: -DSPEC_CPU_LITTLE_ENDIAN

Base Optimization Flags

C benchmarks:
-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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Base Optimization Flags (Continued)

C++ benchmarks:

```
-fast -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE
```

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
```

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.xml.20070206.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/flags.xml.20070206.xml>

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Tested with SPEC CPU2006 v1.0.

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