



SPEC® CINT2006 Result

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Bull SAS

SPECint®2006 = 12.7

NovaScale B280 (Intel Xeon processor 5130,2.0GHz)

SPECint_base2006 = 12.3

CPU2006 license: 20

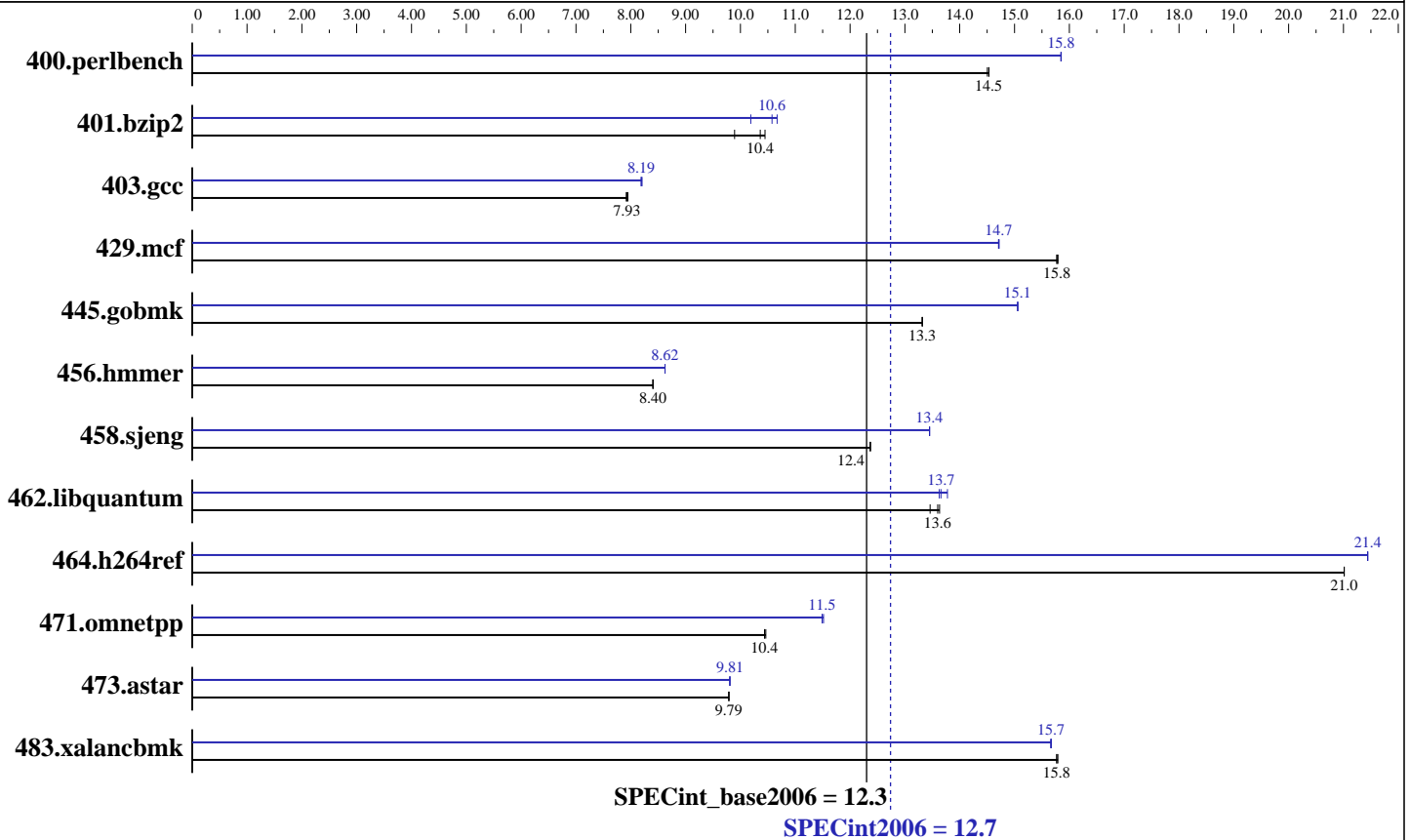
Test date: Dec-2006

Test sponsor: Bull SAS

Hardware Availability: Jan-2007

Tested by: Bull SAS

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 (1GB DIMMx8, 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	674	14.5	<u>672</u>	<u>14.5</u>	672	14.5	<u>617</u>	<u>15.8</u>	617	15.8	616	15.9
401.bzip2	924	10.4	975	9.89	<u>931</u>	<u>10.4</u>	<u>912</u>	<u>10.6</u>	947	10.2	904	10.7
403.gcc	1013	7.95	1017	7.92	<u>1015</u>	<u>7.93</u>	981	8.21	983	8.19	<u>983</u>	<u>8.19</u>
429.mcf	577	15.8	578	15.8	<u>578</u>	<u>15.8</u>	620	14.7	620	14.7	<u>620</u>	<u>14.7</u>
445.gobmk	<u>788</u>	<u>13.3</u>	788	13.3	788	13.3	<u>697</u>	<u>15.1</u>	697	15.1	697	15.1
456.hammer	<u>1110</u>	<u>8.40</u>	1110	8.40	1110	8.40	1082	8.62	1082	8.62	<u>1082</u>	<u>8.62</u>
458.sjeng	978	12.4	978	12.4	<u>978</u>	<u>12.4</u>	<u>900</u>	<u>13.4</u>	900	13.5	900	13.4
462.libquantum	<u>1524</u>	<u>13.6</u>	1539	13.5	1520	13.6	1521	13.6	1504	13.8	<u>1517</u>	<u>13.7</u>
464.h264ref	<u>1053</u>	<u>21.0</u>	1053	21.0	1053	21.0	1032	21.4	<u>1032</u>	<u>21.4</u>	1032	21.4
471.omnetpp	<u>599</u>	<u>10.4</u>	599	10.4	597	10.5	544	11.5	543	11.5	<u>544</u>	<u>11.5</u>
473.astar	<u>717</u>	<u>9.79</u>	717	9.79	717	9.79	716	9.81	<u>716</u>	<u>9.81</u>	716	9.80
483.xalancbmk	<u>438</u>	<u>15.8</u>	438	15.8	437	15.8	<u>440</u>	<u>15.7</u>	440	15.7	441	15.7

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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