SPEC® CINT2006 Result

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Bull SAS

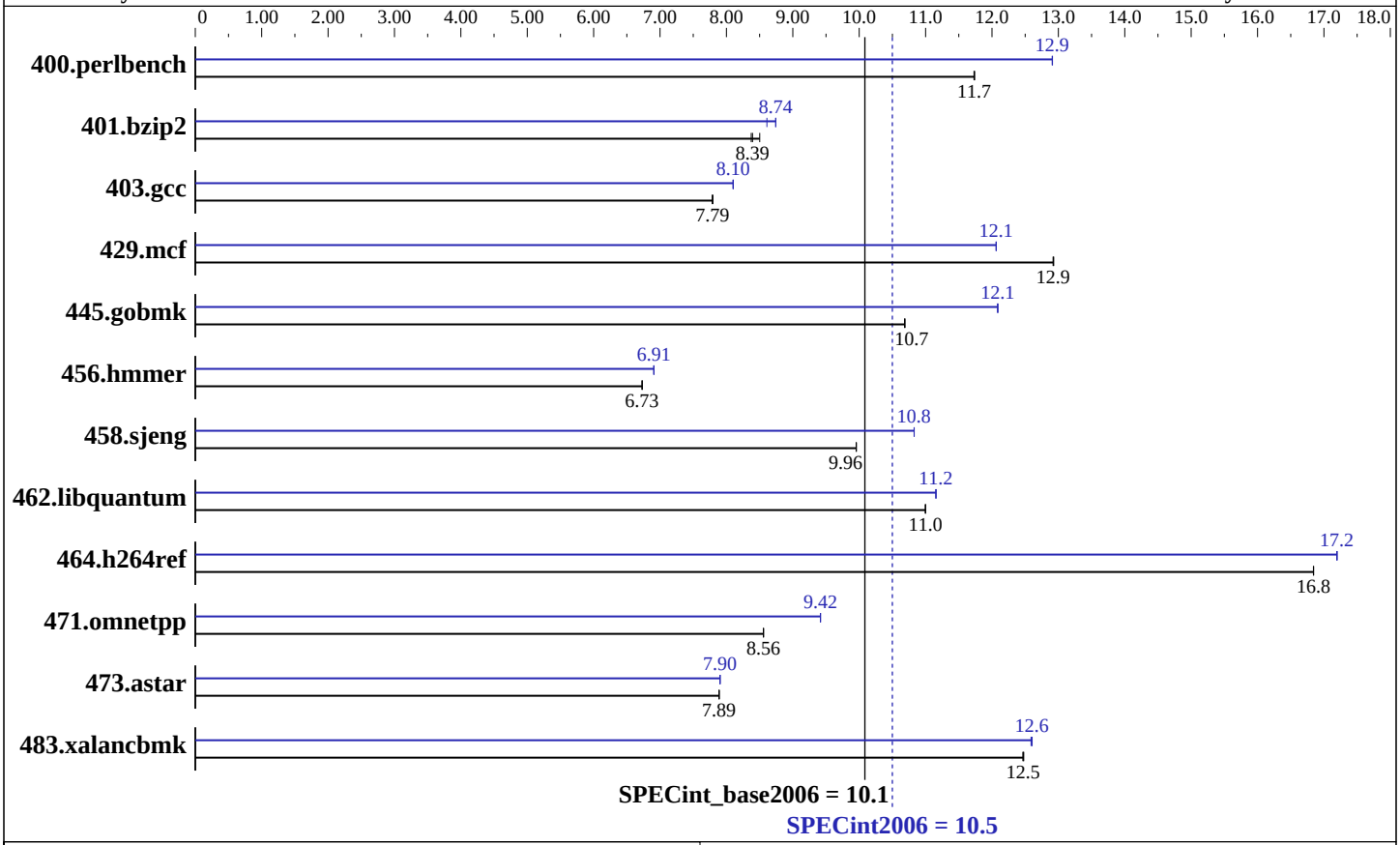
NovaScale B280 (Intel Xeon processor 5110,1.60GHz)

SPECint®2006 = 10.5

SPECint_base2006 = 10.1

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

Test date: Dec-2006
Hardware Availability: Jan-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon 5110
CPU Characteristics:	1.60 GHz, 4MB L2, 1066MHz bus
CPU MHz:	1600
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 (shlW32M.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	**833**	**11.7**	832	11.7	757	12.9	757	12.9	**757**	**12.9**
401.bzip2	**1150**	**8.39**	1152	8.37	1135	8.50	1104	8.74	1121	8.61	**1104**	**8.74**
403.gcc	1033	7.80	**1033**	**7.79**	1034	7.79	**994**	**8.10**	994	8.10	993	8.10
429.mcf	705	12.9	**706**	**12.9**	706	12.9	756	12.1	**756**	**12.1**	756	12.1
445.gobmk	982	10.7	**982**	**10.7**	982	10.7	868	12.1	868	12.1	**868**	**12.1**
456.hmmer	1386	6.73	**1386**	**6.73**	1386	6.73	1351	6.91	1351	6.91	**1351**	**6.91**
458.sjeng	1215	9.96	1216	9.95	**1215**	**9.96**	1117	10.8	1118	10.8	**1118**	**10.8**
462.libquantum	1884	11.0	**1884**	**11.0**	1884	11.0	**1857**	**11.2**	1857	11.2	1857	11.2
464.h264ref	1314	16.8	**1314**	**16.8**	1314	16.8	1287	17.2	1287	17.2	**1287**	**17.2**
471.omnetpp	**730**	**8.56**	730	8.56	730	8.56	664	9.42	664	9.42	**664**	**9.42**
473.astar	**890**	**7.89**	890	7.89	890	7.89	888	7.90	**888**	**7.90**	888	7.90
483.xalancbmk	553	12.5	**553**	**12.5**	554	12.5	547	12.6	548	12.6	**548**	**12.6**

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
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

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
```

Continued on next page

Base Optimization Flags (Continued)

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:
`-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`

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.

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