



SPEC® CINT2006 Result

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Bull SAS

SPECint®2006 = 10.5

NovaScale B280 (Intel Xeon processor 5110,1.60GHz)

SPECint_base2006 = 10.1

CPU2006 license: 20

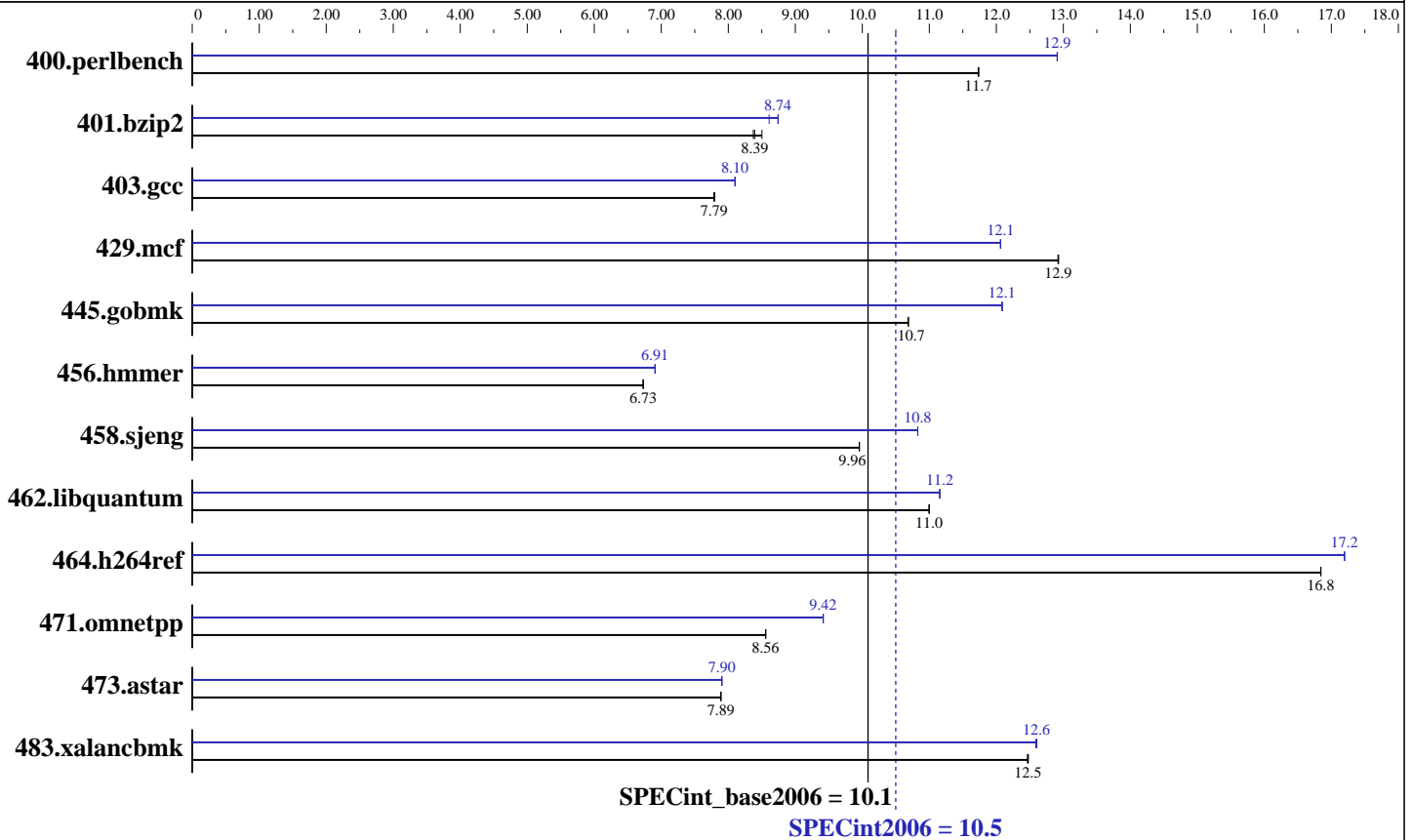
Test date: Dec-2006

Test sponsor: Bull SAS

Hardware Availability: Jan-2007

Tested by: Bull SAS

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 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 (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	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.hammer	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

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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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.

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