SPEC® CINT2006 Result

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Bull SAS

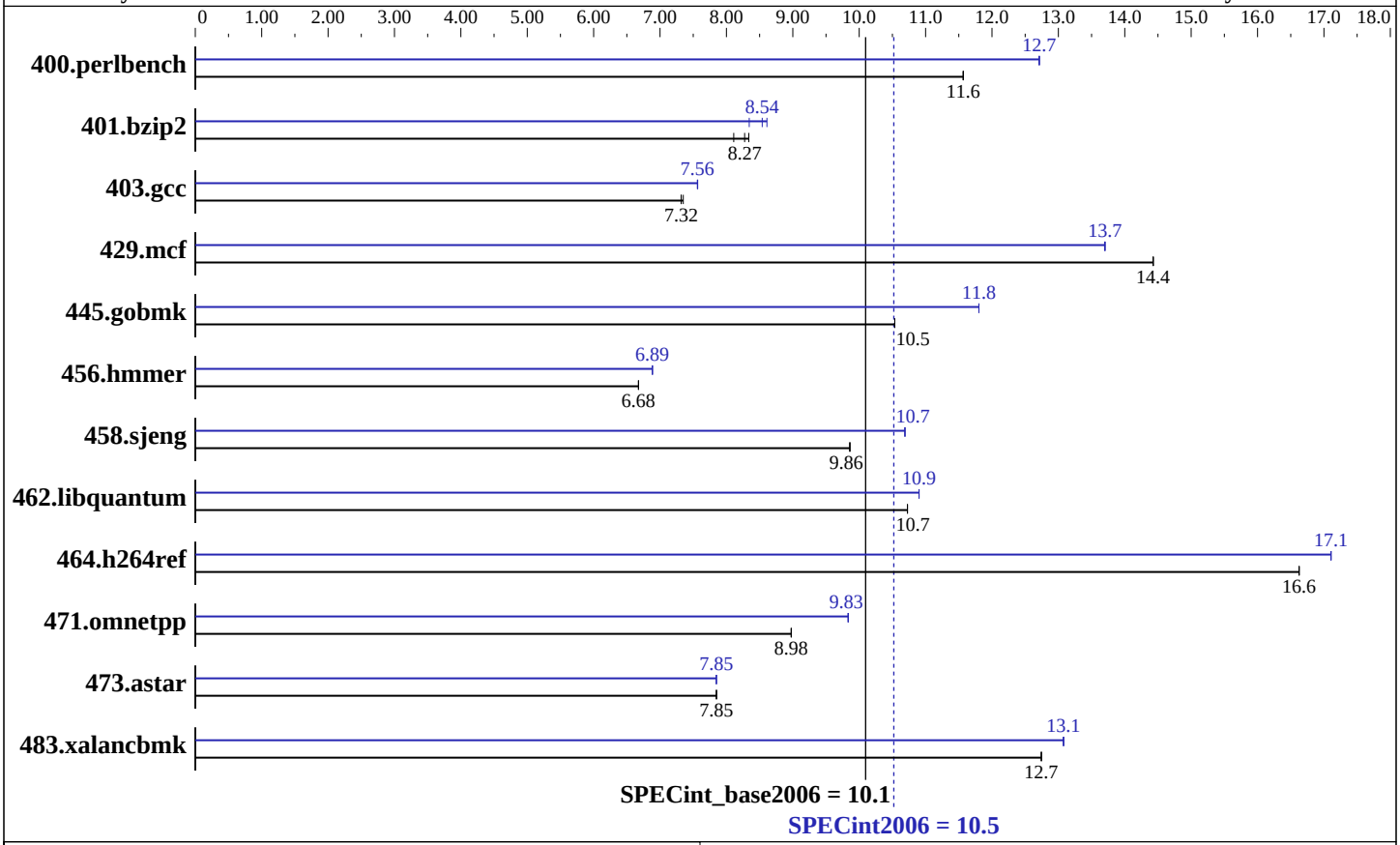
NovaScale R440
(Intel Xeon processor E5310,1.60GHz)

SPECint®2006 = 10.5

SPECint_base2006 = 10.1

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

Test date: Apr-2007
Hardware Availability: Mar-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon E5310
CPU Characteristics:	1.60 GHz, 8MB L2, 1066MHz bus
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 4 cores/chip
CPU(s) orderable:	1 to 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	12 GB (1GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem:	73 GB SAS, 10000RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise X64 Edition 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	845	11.6	844	11.6	**844**	**11.6**	769	12.7	768	12.7	**768**	**12.7**
401.bzip2	1157	8.34	1190	8.11	**1166**	**8.27**	1121	8.61	1157	8.34	**1130**	**8.54**
403.gcc	1095	7.35	1100	7.32	**1100**	**7.32**	1064	7.57	**1064**	**7.56**	1064	7.56
429.mcf	632	14.4	**632**	**14.4**	632	14.4	665	13.7	666	13.7	**666**	**13.7**
445.gobmk	**996**	**10.5**	996	10.5	996	10.5	889	11.8	889	11.8	**889**	**11.8**
456.hmmer	1398	6.68	1398	6.68	**1398**	**6.68**	1355	6.89	**1355**	**6.89**	1355	6.88
458.sjeng	1227	9.86	1227	9.86	**1227**	**9.86**	1132	10.7	1132	10.7	**1132**	**10.7**
462.libquantum	1932	10.7	1932	10.7	**1932**	**10.7**	1901	10.9	**1901**	**10.9**	1901	10.9
464.h264ref	1331	16.6	1331	16.6	**1331**	**16.6**	1294	17.1	**1294**	**17.1**	1294	17.1
471.omnetpp	696	8.98	**696**	**8.98**	696	8.98	636	9.83	636	9.83	**636**	**9.83**
473.astar	894	7.85	**894**	**7.85**	894	7.85	894	7.85	895	7.85	**895**	**7.85**
483.xalancbmk	541	12.7	**541**	**12.7**	542	12.7	527	13.1	**528**	**13.1**	528	13.1

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

```
/NUMPROC=1 flag was added to boot.ini to invoke
uniprocessor environment
```

General Notes

```
The NovaScale R440 and the NovaScale R460 models are
electronically equivalent.
The results have been measured on a NovaScale R460 model.
```

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`

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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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