SPEC® CINT2006 Result

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Bull SAS

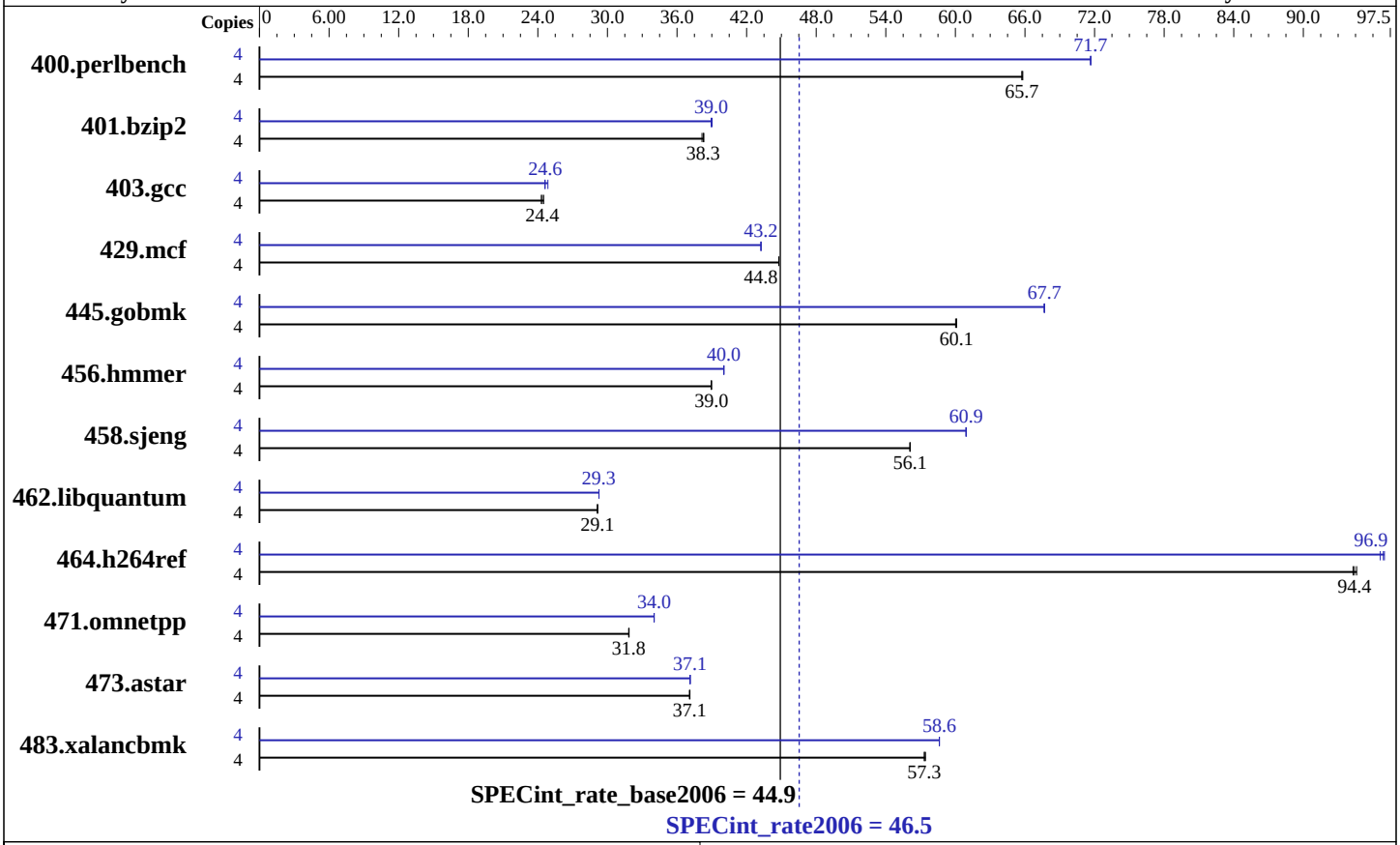
NovaScale R440
(Intel Xeon processor 5140,2.33GHz)

SPECint®_rate2006 = 46.5

SPECint_rate_base2006 = 44.9

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

Test date: May-2007
Hardware Availability: Feb-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon 5140
CPU Characteristics:	2.33 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	2333
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	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:	24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem:	1x73 GB SAS, 15000 RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	**594**	**65.7**	595	65.7	594	65.8	4	545	71.7	**545**	**71.7**	545	71.7
401.bzip2	4	1012	38.2	**1009**	**38.3**	1007	38.3	4	989	39.0	**991**	**39.0**	991	38.9
403.gcc	4	**1321**	**24.4**	1325	24.3	1314	24.5	4	1308	24.6	**1307**	**24.6**	1295	24.9
429.mcf	4	815	44.8	**815**	**44.8**	815	44.8	4	**844**	**43.2**	844	43.2	844	43.2
445.gobmk	4	699	60.0	698	60.1	**698**	**60.1**	4	620	67.7	**620**	**67.7**	620	67.6
456.hmmer	4	958	39.0	**958**	**39.0**	958	39.0	4	**932**	**40.0**	932	40.0	932	40.0
458.sjeng	4	863	56.1	863	56.1	**863**	**56.1**	4	**795**	**60.9**	794	60.9	795	60.9
462.libquantum	4	**2844**	**29.1**	2844	29.1	2844	29.1	4	**2832**	**29.3**	2832	29.3	2831	29.3
464.h264ref	4	**938**	**94.4**	939	94.3	936	94.6	4	913	97.0	916	96.6	**914**	**96.9**
471.omnetpp	4	**785**	**31.8**	785	31.8	784	31.9	4	735	34.0	735	34.0	**735**	**34.0**
473.astar	4	757	37.1	**757**	**37.1**	757	37.1	4	756	37.1	**756**	**37.1**	757	37.1
483.xalancbmk	4	**481**	**57.3**	481	57.4	481	57.3	4	**471**	**58.6**	471	58.6	471	58.6

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

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
```

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

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