SPEC® CINT2006 Result

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Bull SAS

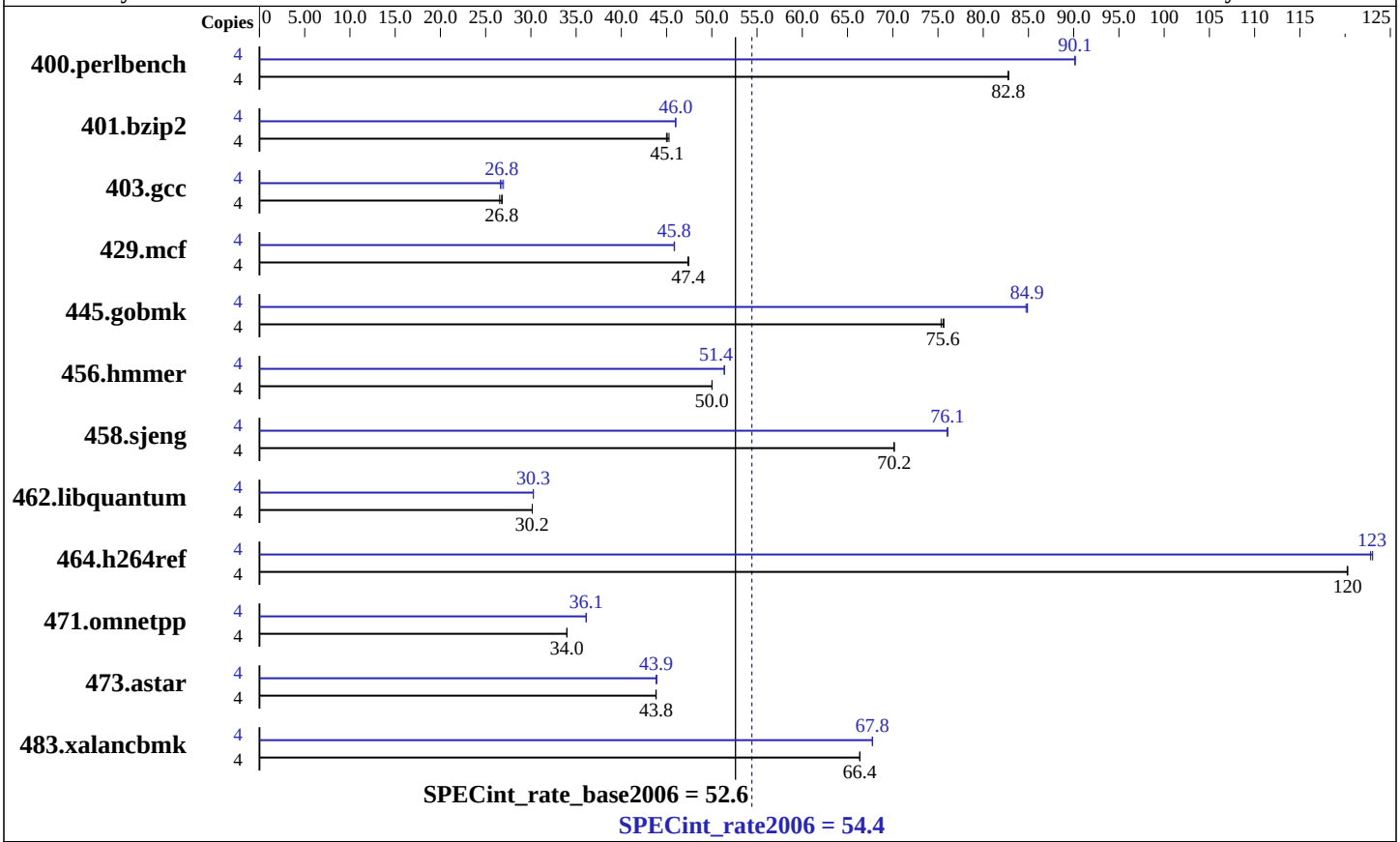
NovaScale R440
(Intel Xeon processor 5160,3.00GHz)

SPECint®_rate2006 = 54.4

SPECint_rate_base2006 = 52.6

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 5160
CPU Characteristics:	3.00 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	3000
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	472	82.8	472	82.8	**472**	**82.8**	4	433	90.2	434	90.1	**434**	**90.1**
401.bzip2	4	858	45.0	**856**	**45.1**	853	45.3	4	839	46.0	839	46.0	**839**	**46.0**
403.gcc	4	**1203**	**26.8**	1200	26.8	1213	26.6	4	1209	26.6	**1202**	**26.8**	1194	27.0
429.mcf	4	770	47.4	769	47.4	**769**	**47.4**	4	795	45.9	**796**	**45.8**	796	45.8
445.gobmk	4	555	75.7	557	75.3	**555**	**75.6**	4	**495**	**84.9**	494	84.9	495	84.7
456.hmmer	4	746	50.0	746	50.0	**746**	**50.0**	4	**726**	**51.4**	726	51.4	726	51.4
458.sjeng	4	690	70.2	**690**	**70.2**	690	70.1	4	**636**	**76.1**	636	76.1	637	76.0
462.libquantum	4	2749	30.1	2749	30.2	**2749**	**30.2**	4	2738	30.3	**2738**	**30.3**	2738	30.3
464.h264ref	4	**736**	**120**	736	120	736	120	4	**720**	**123**	721	123	719	123
471.omnetpp	4	736	34.0	**735**	**34.0**	735	34.0	4	692	36.1	**692**	**36.1**	692	36.1
473.astar	4	640	43.9	641	43.8	**641**	**43.8**	4	**640**	**43.9**	639	43.9	640	43.9
483.xalancbmk	4	416	66.3	416	66.4	**416**	**66.4**	4	407	67.8	**407**	**67.8**	407	67.7

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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