SPEC® CINT2006 Result

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Bull SAS

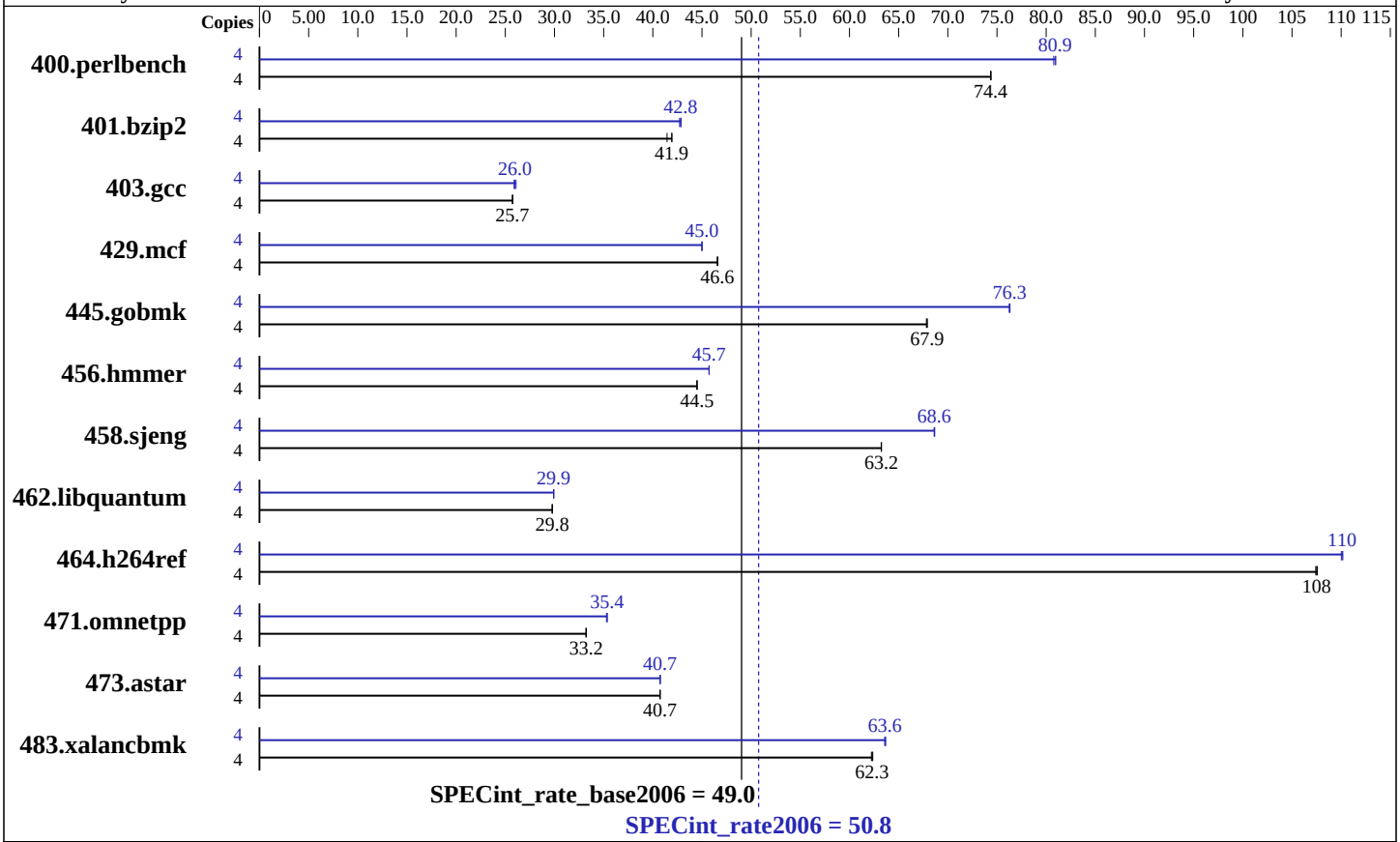
NovaScale R460
(Intel Xeon processor 5150,2.66GHz)

SPECint®_rate2006 = 50.8

SPECint_rate_base2006 = 49.0

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

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



Hardware

CPU Name:	Intel Xeon 5150
CPU Characteristics:	2.66 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	2666
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 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:	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	526	74.3	525	74.4	**526**	**74.4**	4	483	81.0	484	80.8	**483**	**80.9**
401.bzip2	4	931	41.4	**921**	**41.9**	920	41.9	4	904	42.7	**902**	**42.8**	900	42.9
403.gcc	4	1251	25.7	1251	25.7	**1251**	**25.7**	4	**1240**	**26.0**	1243	25.9	1234	26.1
429.mcf	4	783	46.6	783	46.6	**783**	**46.6**	4	811	45.0	811	45.0	**811**	**45.0**
445.gobmk	4	**618**	**67.9**	619	67.8	618	67.9	4	**550**	**76.3**	550	76.3	550	76.2
456.hmmer	4	839	44.5	839	44.5	**839**	**44.5**	4	**816**	**45.7**	816	45.7	816	45.7
458.sjeng	4	**765**	**63.2**	766	63.2	765	63.2	4	**705**	**68.6**	705	68.7	705	68.6
462.libquantum	4	**2783**	**29.8**	2783	29.8	2784	29.8	4	2770	29.9	2770	29.9	**2770**	**29.9**
464.h264ref	4	824	107	**823**	**108**	823	108	4	803	110	805	110	**804**	**110**
471.omnetpp	4	752	33.2	**753**	**33.2**	753	33.2	4	**707**	**35.4**	707	35.4	708	35.3
473.astar	4	**689**	**40.7**	689	40.7	689	40.7	4	689	40.7	**689**	**40.7**	689	40.8
483.xalancbmk	4	443	62.4	**443**	**62.3**	444	62.2	4	**434**	**63.6**	434	63.6	433	63.7

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
```

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:

Continued on next page

Peak Other Flags (Continued)

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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