SPEC® CINT2006 Result

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Bull SAS

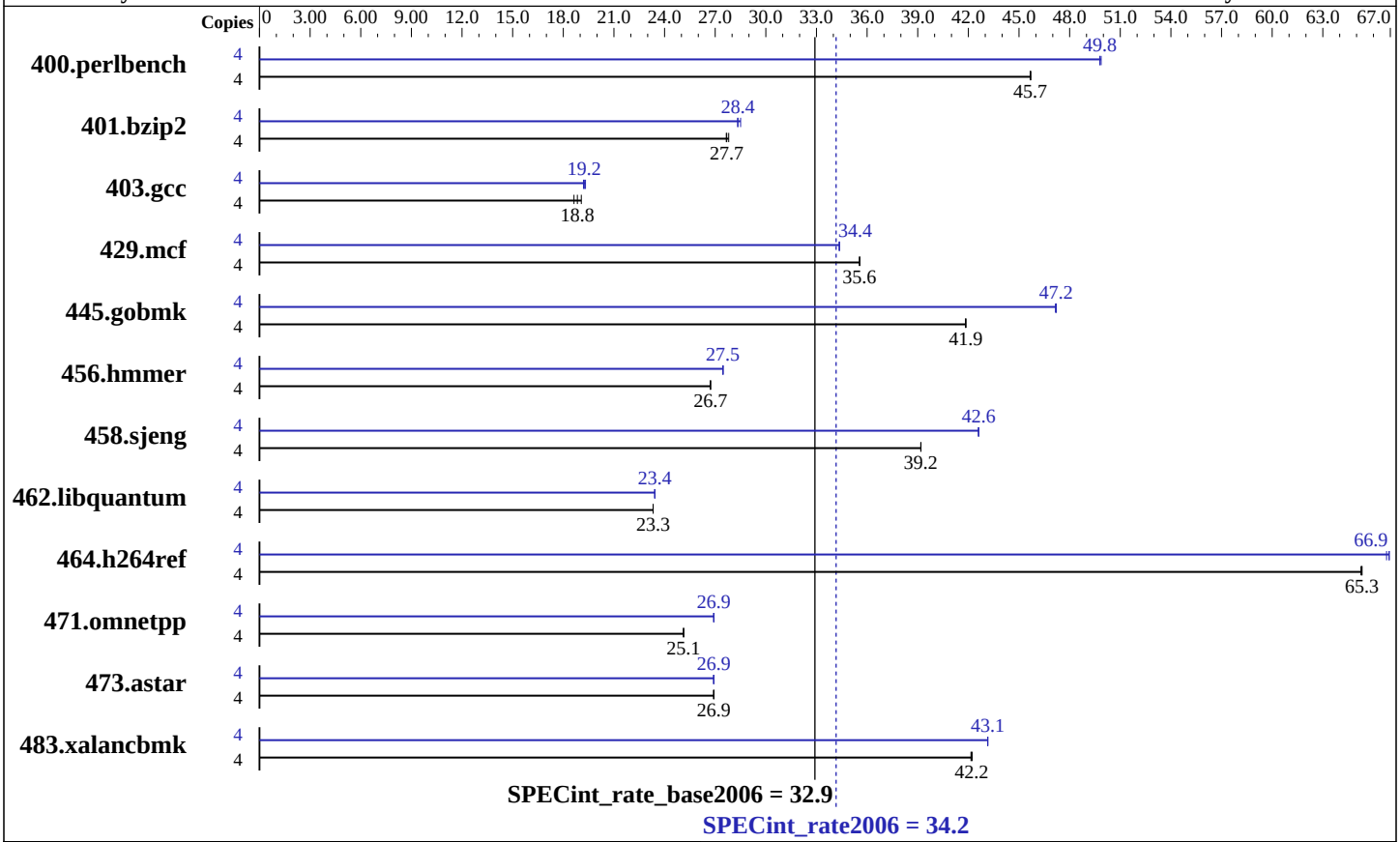
NovaScale R440
(Intel Xeon processor 5110,1.60GHz)

SPECint®_rate2006 = 34.2

SPECint_rate_base2006 = 32.9

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 5110
CPU Characteristics:	1.60 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz:	1600
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	**856**	**45.7**	856	45.7	855	45.7	4	**785**	**49.8**	784	49.9	785	49.8
401.bzip2	4	1396	27.7	1388	27.8	**1394**	**27.7**	4	**1361**	**28.4**	1354	28.5	1363	28.3
403.gcc	4	1689	19.1	**1710**	**18.8**	1728	18.6	4	1667	19.3	**1673**	**19.2**	1677	19.2
429.mcf	4	1026	35.6	1026	35.6	**1026**	**35.6**	4	**1062**	**34.4**	1062	34.3	1062	34.4
445.gobmk	4	1003	41.9	1003	41.8	**1003**	**41.9**	4	**889**	**47.2**	889	47.2	890	47.2
456.hmmer	4	1396	26.7	1397	26.7	**1397**	**26.7**	4	**1359**	**27.5**	1359	27.5	1359	27.5
458.sjeng	4	1235	39.2	**1235**	**39.2**	1235	39.2	4	1136	42.6	**1136**	**42.6**	1136	42.6
462.libquantum	4	**3554**	**23.3**	3554	23.3	3553	23.3	4	3539	23.4	3538	23.4	**3539**	**23.4**
464.h264ref	4	**1355**	**65.3**	1356	65.3	1355	65.3	4	**1323**	**66.9**	1326	66.8	1323	66.9
471.omnetpp	4	995	25.1	995	25.1	**995**	**25.1**	4	**929**	**26.9**	929	26.9	929	26.9
473.astar	4	1044	26.9	1043	26.9	**1043**	**26.9**	4	**1043**	**26.9**	1043	26.9	1044	26.9
483.xalancbmk	4	655	42.2	**654**	**42.2**	654	42.2	4	640	43.2	**640**	**43.1**	640	43.1

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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