SPEC® CINT2006 Result

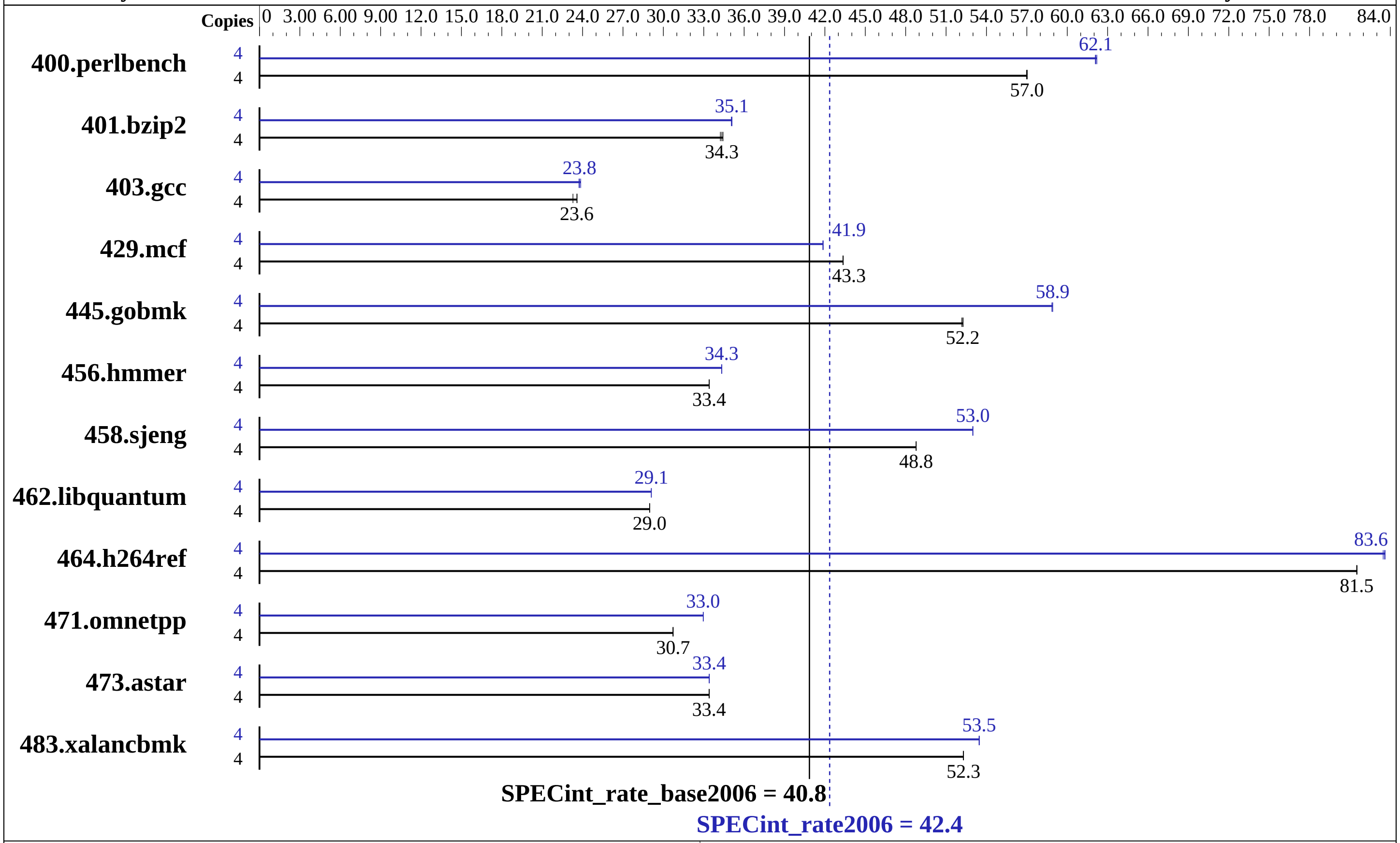
Bull SAS

NovaScale R460
(Intel Xeon processor 5130,2.00GHz)

SPECint®_rate2006 = 42.4

SPECint_rate_base2006 = 40.8

CPU2006 license:	20	**Test date:**	May-2007
Test sponsor:	Bull SAS	**Hardware Availability:**	Feb-2007
Tested by:	Bull SAS	**Software Availability:**	Dec-2006



Hardware

CPU Name:	Intel Xeon 5130
CPU Characteristics:	2.00 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	2000
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

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	**685**	**57.0**	686	57.0	685	57.0	4	628	62.2	629	62.1	**629**	**62.1**
401.bzip2	4	1121	34.4	**1124**	**34.3**	1127	34.2	4	**1100**	**35.1**	1101	35.0	1100	35.1
403.gcc	4	**1366**	**23.6**	1383	23.3	1365	23.6	4	1349	23.9	1357	23.7	**1354**	**23.8**
429.mcf	4	842	43.3	**842**	**43.3**	841	43.4	4	**871**	**41.9**	872	41.8	871	41.9
445.gobmk	4	803	52.3	**803**	**52.2**	804	52.2	4	**712**	**58.9**	712	58.9	713	58.9
456.hmmer	4	1117	33.4	**1117**	**33.4**	1117	33.4	4	1087	34.3	**1087**	**34.3**	1087	34.3
458.sjeng	4	992	48.8	992	48.8	**992**	**48.8**	4	**913**	**53.0**	914	53.0	913	53.0
462.libquantum	4	2860	29.0	**2860**	**29.0**	2861	29.0	4	**2847**	**29.1**	2847	29.1	2847	29.1
464.h264ref	4	**1086**	**81.5**	1086	81.5	1086	81.5	4	1059	83.6	1061	83.5	**1059**	**83.6**
471.omnetpp	4	813	30.7	**814**	**30.7**	814	30.7	4	**758**	**33.0**	758	33.0	759	33.0
473.astar	4	841	33.4	840	33.4	**841**	**33.4**	4	840	33.4	841	33.4	**840**	**33.4**
483.xalancbmk	4	**528**	**52.3**	528	52.3	528	52.3	4	**516**	**53.5**	516	53.4	516	53.5

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`

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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

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

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