SPEC® CINT2006 Result

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Bull SAS

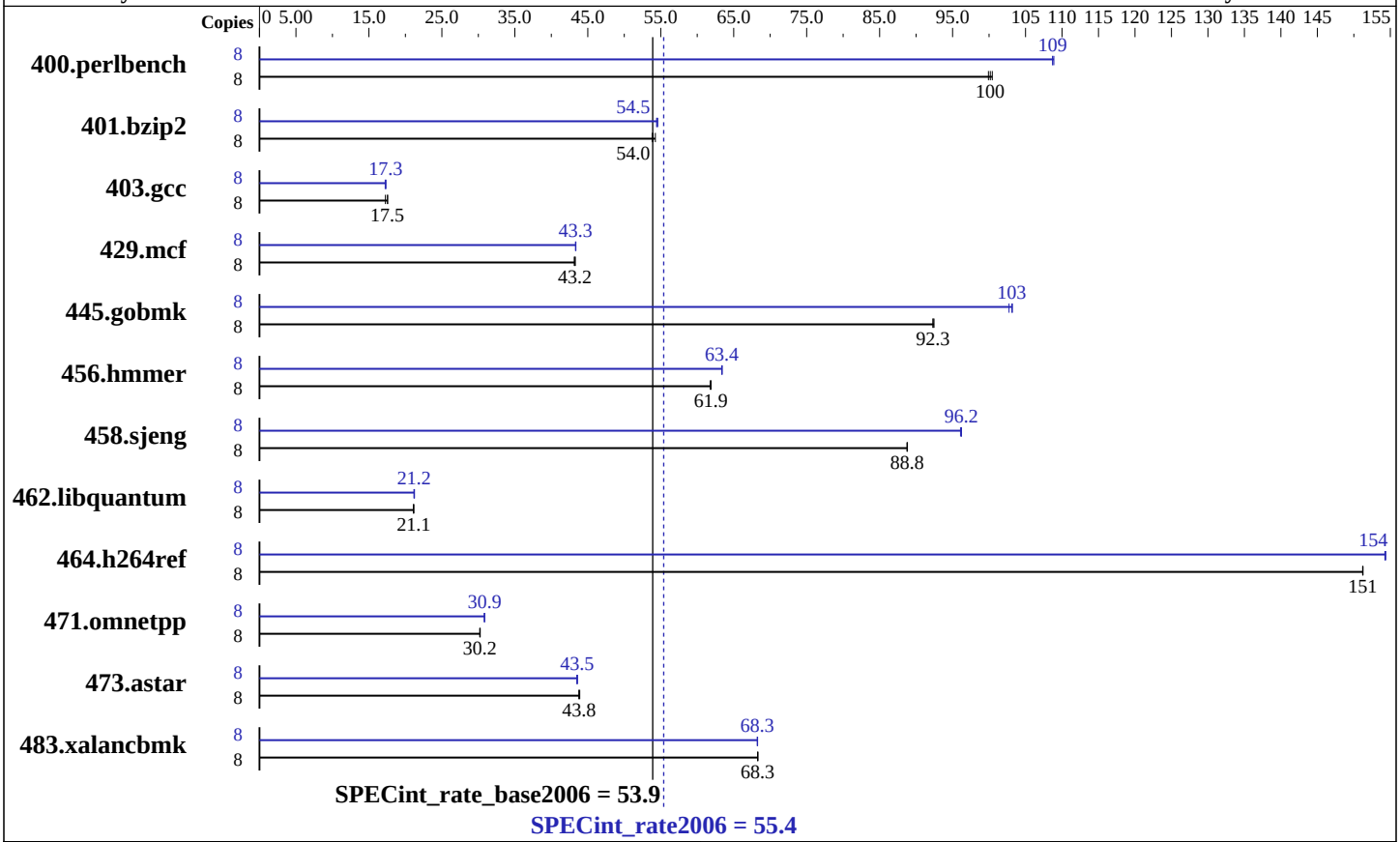
NovaScale B260 (Intel Xeon processor E5320,1.86GHz)

SPECint®_rate2006 = 55.4

SPECint_rate_base2006 = 53.9

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

Test date: Dec-2006
Hardware Availability: Jan-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 8MB L2, 1066MHz bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1 to 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (2GB DIMMx4, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem:	73 GB SAS, 10000RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition (32 bits) 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	8	782	99.9	**780**	**100**	778	100	8	718	109	**719**	**109**	719	109
401.bzip2	8	**1431**	**54.0**	1423	54.3	1434	53.8	8	**1417**	**54.5**	1418	54.4	1414	54.6
403.gcc	8	3731	17.3	3667	17.6	**3670**	**17.5**	8	3715	17.3	**3725**	**17.3**	3738	17.2
429.mcf	8	1691	43.1	**1687**	**43.2**	1686	43.3	8	**1683**	**43.3**	1682	43.4	1684	43.3
445.gobmk	8	909	92.3	**909**	**92.3**	908	92.5	8	813	103	**814**	**103**	817	103
456.hmmer	8	1208	61.8	1206	61.9	**1206**	**61.9**	8	**1178**	**63.4**	1178	63.4	1177	63.4
458.sjeng	8	1090	88.8	**1090**	**88.8**	1091	88.7	8	1006	96.2	**1006**	**96.2**	1007	96.1
462.libquantum	8	**7840**	**21.1**	7858	21.1	7838	21.1	8	7801	21.2	**7819**	**21.2**	7825	21.2
464.h264ref	8	**1171**	**151**	1171	151	1170	151	8	**1147**	**154**	1148	154	1147	154
471.omnetpp	8	1656	30.2	1652	30.3	**1655**	**30.2**	8	1623	30.8	1621	30.9	**1621**	**30.9**
473.astar	8	1279	43.9	**1282**	**43.8**	1283	43.8	8	1288	43.6	1291	43.5	**1290**	**43.5**
483.xalancbmk	8	808	68.3	808	68.3	**808**	**68.3**	8	809	68.2	808	68.3	**809**	**68.3**

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

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:

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.20090715.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/flags.20090715.xml`

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