SPEC® CINT2006 Result

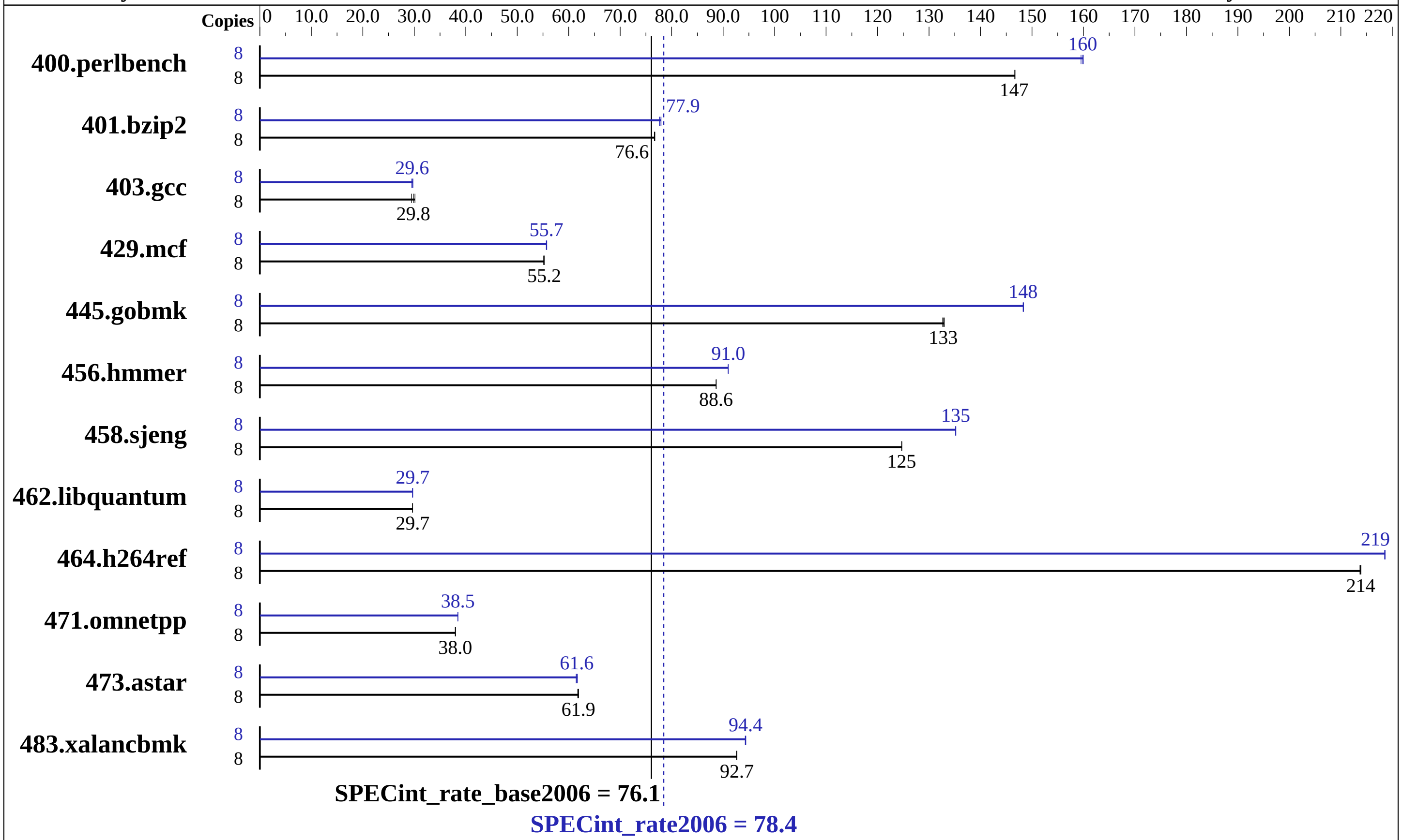
Bull SAS

NovaScale R460
(Intel Xeon processor X5355,2.66GHz)

SPECint®_rate2006 = 78.4

SPECint_rate_base2006 = 76.1

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



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	2.66 GHz, 8 MB L2, 1333 MHz bus
CPU MHz:	2666
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:	24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem:	1x73 GB SAS, 10000 RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 R2 Enterprise 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	8	533	147	**533**	**147**	533	147	8	**489**	**160**	490	160	489	160
401.bzip2	8	1006	76.7	1007	76.6	**1007**	**76.6**	8	**991**	**77.9**	991	77.9	994	77.6
403.gcc	8	2185	29.5	**2160**	**29.8**	2137	30.1	8	2182	29.5	**2176**	**29.6**	2165	29.7
429.mcf	8	1323	55.1	1321	55.2	**1321**	**55.2**	8	**1310**	**55.7**	1309	55.7	1311	55.6
445.gobmk	8	631	133	633	133	**632**	**133**	8	**566**	**148**	566	148	566	148
456.hmmer	8	**842**	**88.6**	842	88.6	842	88.7	8	820	91.0	820	91.0	**820**	**91.0**
458.sjeng	8	776	125	**776**	**125**	776	125	8	**716**	**135**	716	135	716	135
462.libquantum	8	**5585**	**29.7**	5585	29.7	5584	29.7	8	5580	29.7	**5583**	**29.7**	5590	29.7
464.h264ref	8	828	214	**828**	**214**	828	214	8	810	219	**810**	**219**	810	218
471.omnetpp	8	1315	38.0	**1316**	**38.0**	1317	38.0	8	1300	38.5	**1300**	**38.5**	1300	38.5
473.astar	8	**907**	**61.9**	909	61.8	907	61.9	8	**912**	**61.6**	910	61.7	914	61.4
483.xalancbmk	8	**596**	**92.7**	596	92.6	596	92.7	8	**585**	**94.4**	585	94.4	585	94.3

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 R440 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

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

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