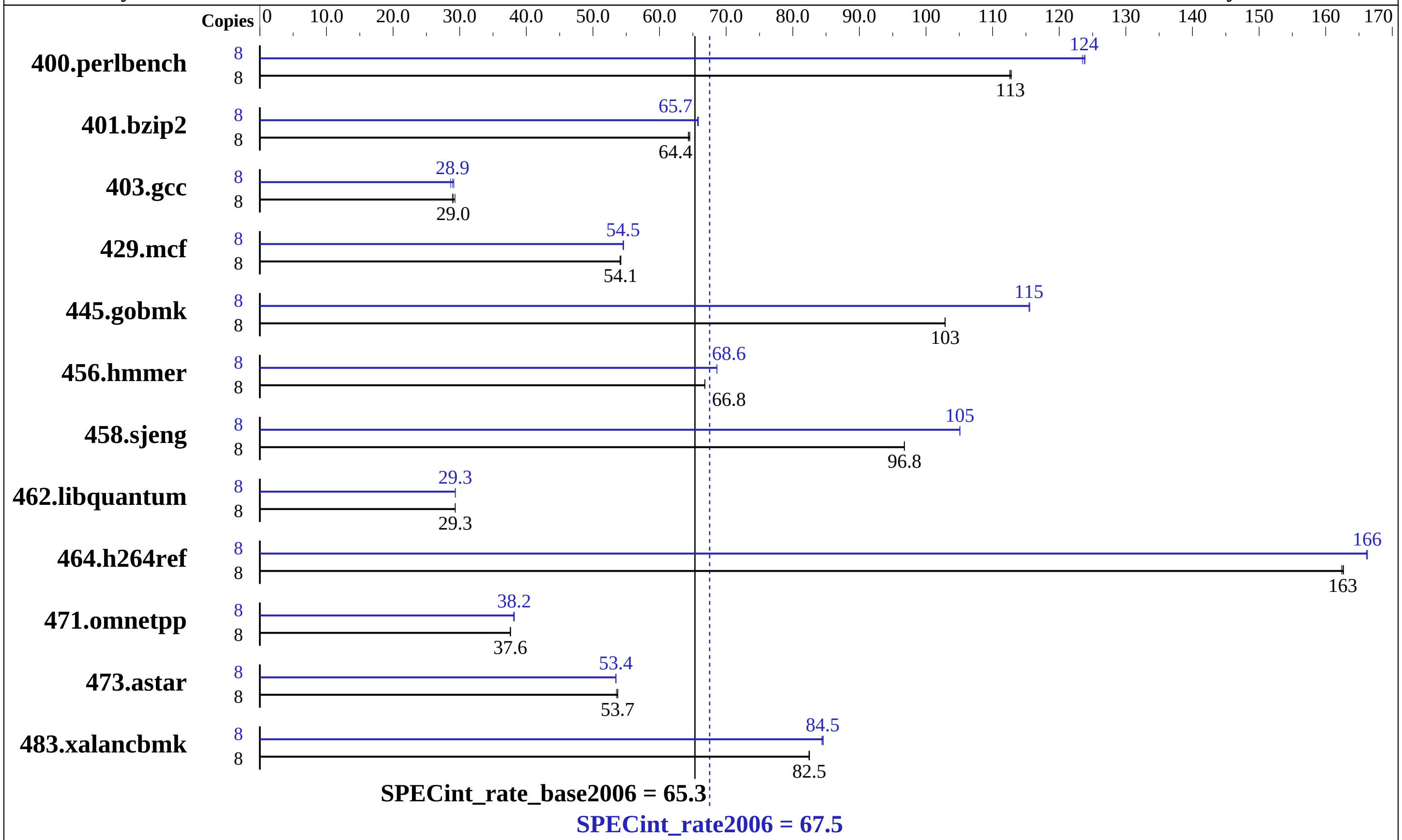
Bull SAS

NovaScale R440
(Intel Xeon processor E5335,2.00GHz)

SPECint®_rate2006 = 67.5

SPECint_rate_base2006 = 65.3

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



Hardware

CPU Name:	Intel Xeon E5335
CPU Characteristics:	2.00 GHz, 8MB L2, 1333MHz bus
CPU MHz:	2000
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 (2GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem:	73 GB SAS, 10000RPM
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)

SPEC CINT2006 Result

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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	694	113	693	113	**694**	**113**	8	631	124	**632**	**124**	633	123
401.bzip2	8	1200	64.3	1196	64.6	**1199**	**64.4**	8	**1174**	**65.7**	1175	65.7	1173	65.8
403.gcc	8	**2219**	**29.0**	2227	28.9	2199	29.3	8	**2225**	**28.9**	2211	29.1	2249	28.6
429.mcf	8	1346	54.2	**1348**	**54.1**	1350	54.1	8	1336	54.6	**1338**	**54.5**	1338	54.5
445.gobmk	8	816	103	**816**	**103**	816	103	8	727	115	726	116	**727**	**115**
456.hmmer	8	**1117**	**66.8**	1117	66.8	1117	66.8	8	**1088**	**68.6**	1088	68.6	1088	68.6
458.sjeng	8	**1000**	**96.8**	1001	96.7	1000	96.8	8	921	105	**921**	**105**	921	105
462.libquantum	8	5651	29.3	**5650**	**29.3**	5650	29.3	8	**5649**	**29.3**	5648	29.3	5650	29.3
464.h264ref	8	**1089**	**163**	1090	162	1088	163	8	1066	166	1065	166	**1065**	**166**
471.omnetpp	8	1328	37.7	**1330**	**37.6**	1330	37.6	8	1308	38.2	**1310**	**38.2**	1313	38.1
473.astar	8	1049	53.5	**1046**	**53.7**	1045	53.7	8	1050	53.5	1051	53.4	**1051**	**53.4**
483.xalancbmk	8	670	82.4	**669**	**82.5**	669	82.5	8	**653**	**84.5**	653	84.6	654	84.4

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`

SPEC CINT2006 Result

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.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:11:40 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 15 May 2007.