SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

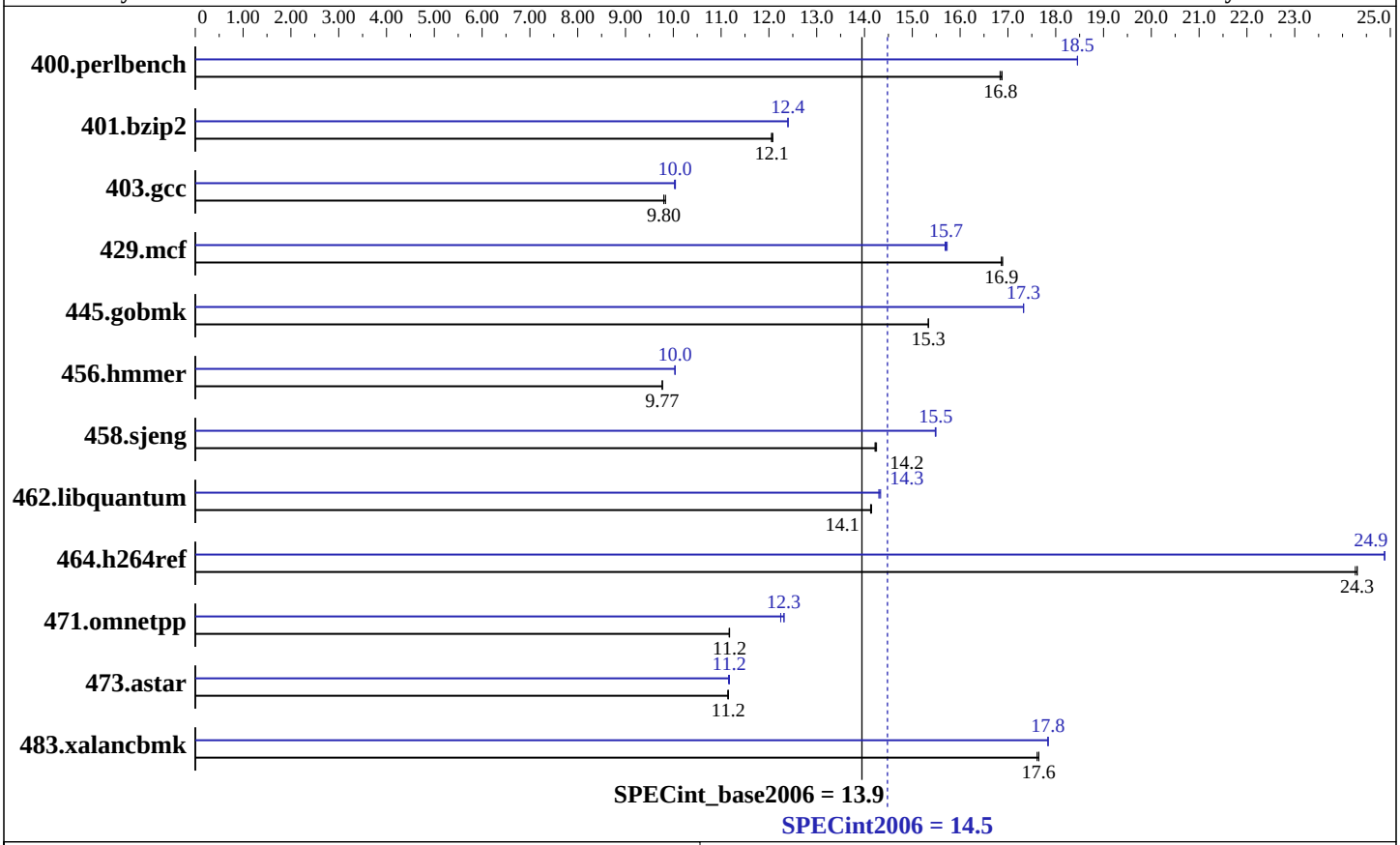
NovaScale R440
(Intel Xeon processor E5345,2.33GHz)

SPECint®2006 = 14.5

SPECint_base2006 = 13.9

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

Test date: Apr-2007
Hardware Availability: Mar-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon E5345
CPU Characteristics:	2.33 GHz, 8MB L2, 1333MHz bus
CPU MHz:	2330
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R440
(Intel Xeon processor E5345,2.33GHz)

SPECint2006 = 14.5

SPECint_base2006 = 13.9

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

Test date: Apr-2007
Hardware Availability: Mar-2007
Software Availability: Dec-2006

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	579	16.9	**580**	**16.8**	580	16.8	529	18.5	**529**	**18.5**	529	18.5
401.bzip2	799	12.1	801	12.1	**800**	**12.1**	**778**	**12.4**	778	12.4	778	12.4
403.gcc	818	9.84	821	9.80	**821**	**9.80**	801	10.0	**802**	**10.0**	803	10.0
429.mcf	**541**	**16.9**	541	16.9	540	16.9	581	15.7	**581**	**15.7**	580	15.7
445.gobmk	684	15.3	**684**	**15.3**	684	15.3	605	17.3	**605**	**17.3**	605	17.3
456.hmmer	955	9.77	**955**	**9.77**	955	9.77	**930**	**10.0**	930	10.0	930	10.0
458.sjeng	**851**	**14.2**	851	14.2	849	14.3	781	15.5	782	15.5	**781**	**15.5**
462.libquantum	1467	14.1	**1466**	**14.1**	1465	14.1	1445	14.3	**1447**	**14.3**	1449	14.3
464.h264ref	**910**	**24.3**	912	24.3	910	24.3	889	24.9	889	24.9	**889**	**24.9**
471.omnetpp	**559**	**11.2**	559	11.2	560	11.2	510	12.2	507	12.3	**508**	**12.3**
473.astar	630	11.2	**630**	**11.2**	630	11.1	629	11.2	628	11.2	**628**	**11.2**
483.xalancbmk	391	17.6	392	17.6	**391**	**17.6**	387	17.8	**387**	**17.8**	387	17.8

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

Operating System Notes

```
/NUMPROC=1 flag was added to boot.ini to invoke
uniprocessor environment
```

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:

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`

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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 12:10:21 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 15 May 2007.