SPEC® CINT2006 Result

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Bull SAS

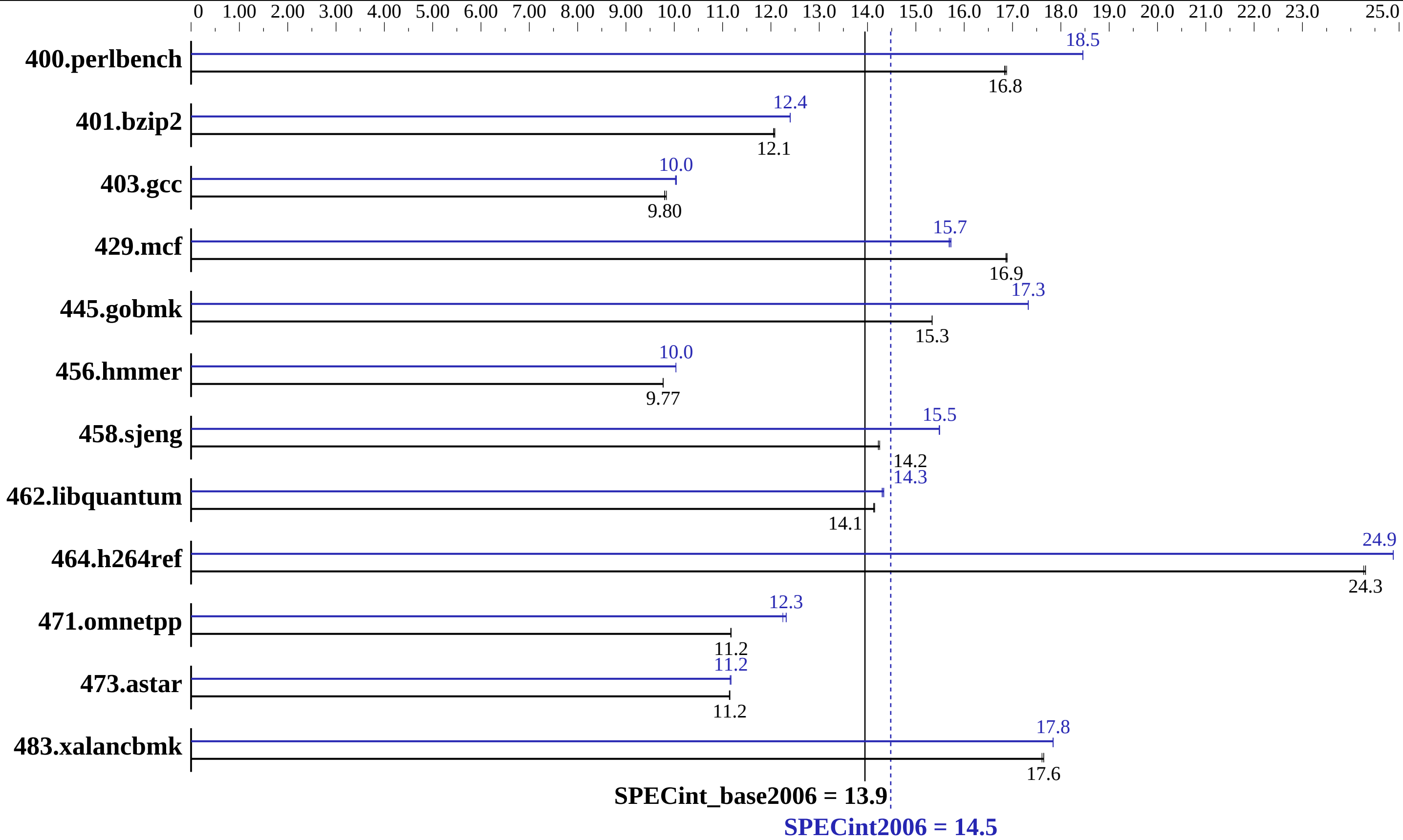
NovaScale R460
(Intel Xeon processor E5345,2.33GHz)

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)

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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
```

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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

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For other inquiries, please contact webmaster@spec.org.

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