SPEC® CINT2006 Result

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Bull SAS

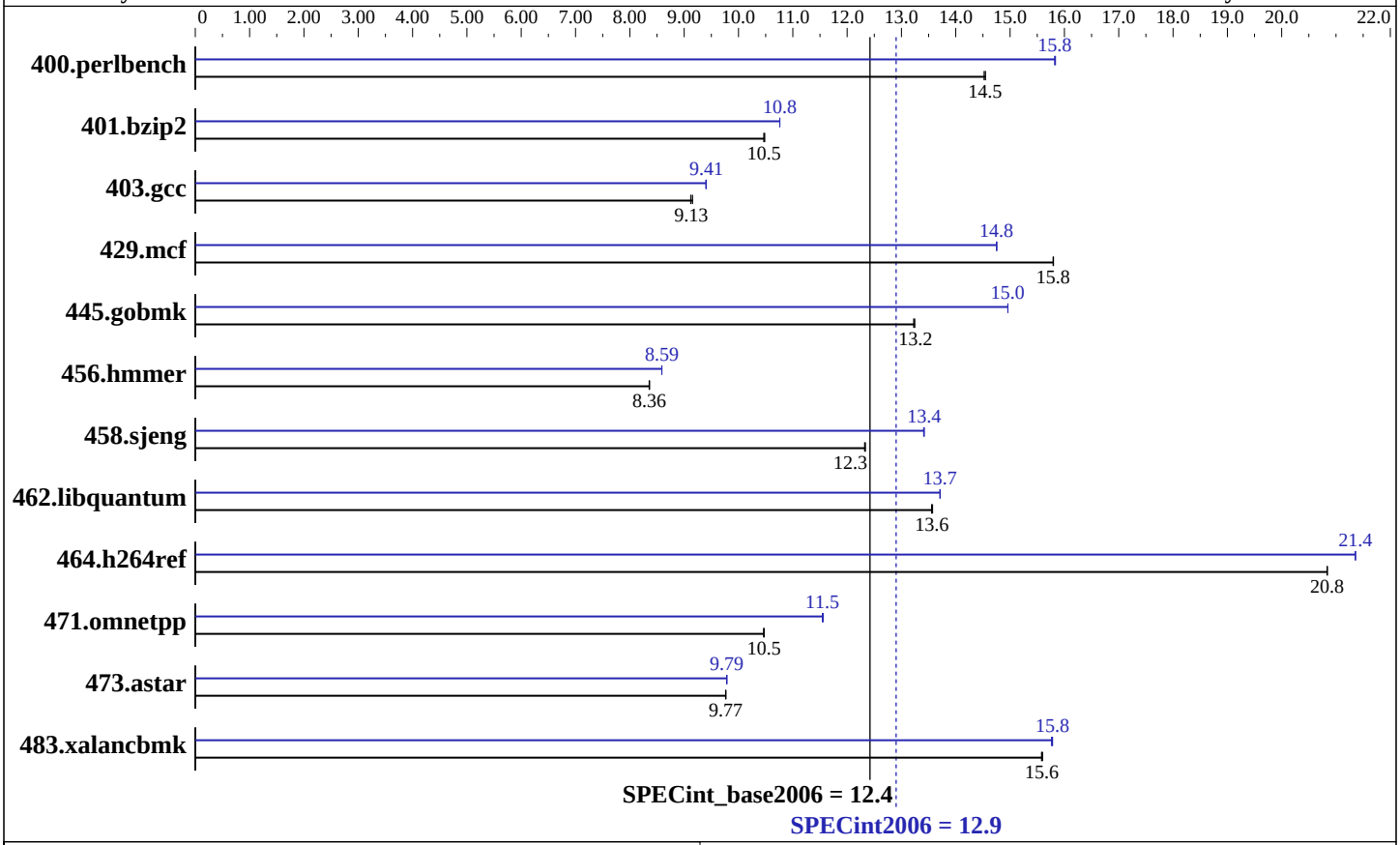
NovaScale R460
(Intel Xeon processor 5130,2.00GHz)

SPECint®2006 = 12.9

SPECint_base2006 = 12.4

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

Test date: May-2007
Hardware Availability: Feb-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon 5130
CPU Characteristics:	2.00 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1 to 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem:	1x73 GB SAS, 15000 RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition 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	**672**	**14.5**	672	14.5	673	14.5	**617**	**15.8**	617	15.8	618	15.8
401.bzip2	920	10.5	**922**	**10.5**	922	10.5	897	10.8	897	10.8	**897**	**10.8**
403.gcc	879	9.16	**882**	**9.13**	883	9.12	856	9.41	**856**	**9.41**	857	9.40
429.mcf	578	15.8	**577**	**15.8**	577	15.8	**618**	**14.8**	618	14.7	618	14.8
445.gobmk	793	13.2	792	13.2	**793**	**13.2**	**701**	**15.0**	701	15.0	701	15.0
456.hmmer	1117	8.35	**1116**	**8.36**	1116	8.36	1086	8.59	1086	8.59	**1086**	**8.59**
458.sjeng	982	12.3	**982**	**12.3**	981	12.3	902	13.4	902	13.4	**902**	**13.4**
462.libquantum	1529	13.6	**1528**	**13.6**	1526	13.6	1512	13.7	**1511**	**13.7**	1511	13.7
464.h264ref	1062	20.8	1062	20.8	**1062**	**20.8**	**1036**	**21.4**	1036	21.4	1036	21.4
471.omnetpp	**597**	**10.5**	597	10.5	597	10.5	541	11.5	**541**	**11.5**	541	11.6
473.astar	**719**	**9.77**	719	9.76	719	9.77	**717**	**9.79**	717	9.79	717	9.78
483.xalancbmk	**443**	**15.6**	443	15.6	442	15.6	438	15.8	437	15.8	**437**	**15.8**

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

Operating System Notes

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

General Notes

```
The NovaScale R440 and the NovaScale R460 models are
electronically equivalent.
The results have been measured on a NovaScale R460 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`

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

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