SPEC® CINT2006 Result

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Bull SAS

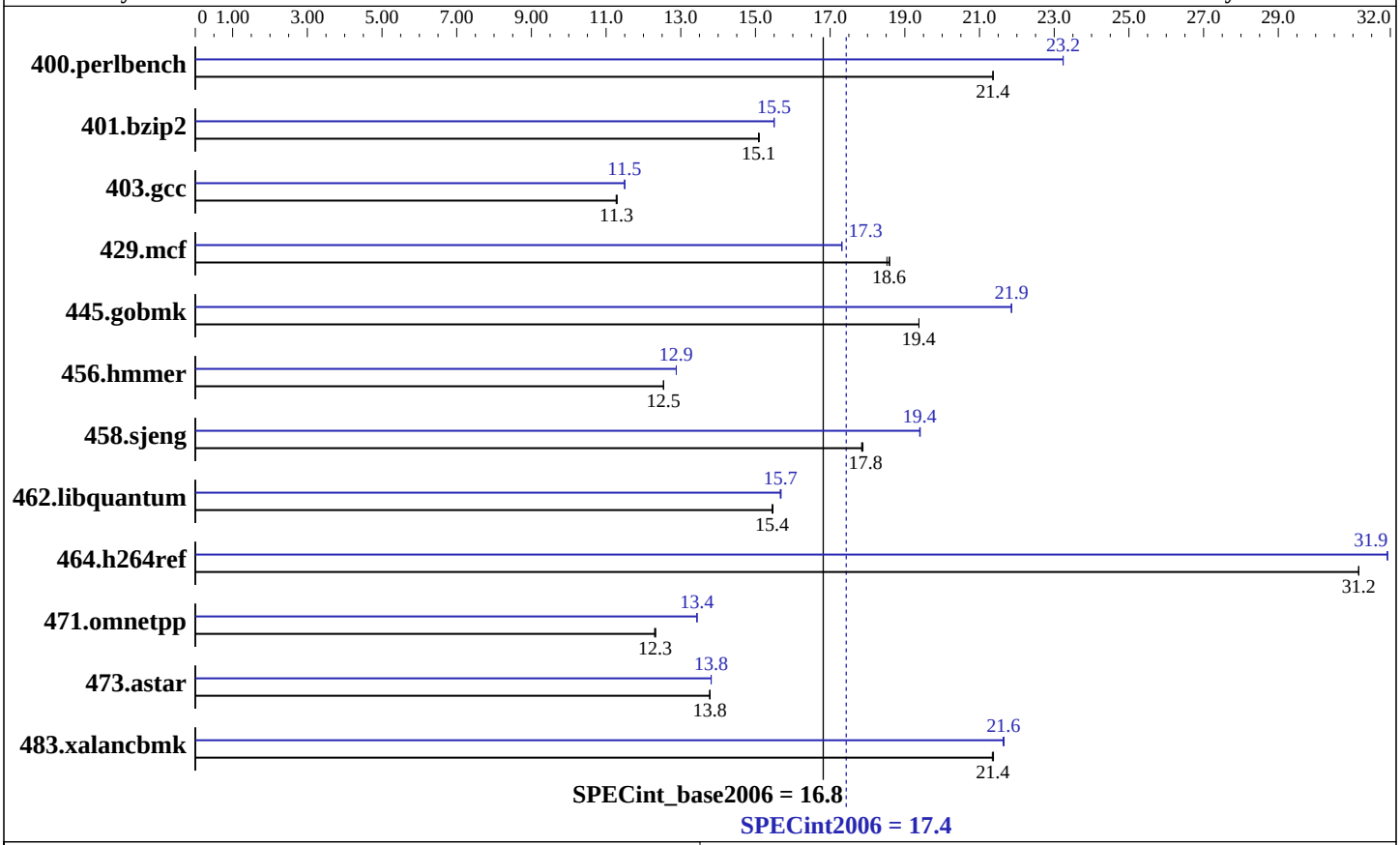
NovaScale R440
(Intel Xeon processor 5160,3.00GHz)

SPECint®2006 = 17.4

SPECint_base2006 = 16.8

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 5160
CPU Characteristics:	3.00 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	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	457	21.4	457	21.4	**457**	**21.4**	420	23.2	420	23.2	**420**	**23.2**
401.bzip2	639	15.1	640	15.1	**640**	**15.1**	623	15.5	**623**	**15.5**	623	15.5
403.gcc	713	11.3	**714**	**11.3**	714	11.3	700	11.5	700	11.5	**700**	**11.5**
429.mcf	492	18.5	490	18.6	**491**	**18.6**	527	17.3	**527**	**17.3**	527	17.3
445.gobmk	541	19.4	**541**	**19.4**	541	19.4	480	21.9	480	21.9	**480**	**21.9**
456.hmmer	**744**	**12.5**	744	12.5	744	12.5	724	12.9	724	12.9	**724**	**12.9**
458.sjeng	**678**	**17.8**	678	17.8	677	17.9	624	19.4	**624**	**19.4**	623	19.4
462.libquantum	**1341**	**15.4**	1341	15.4	1340	15.5	1321	15.7	1323	15.7	**1322**	**15.7**
464.h264ref	710	31.2	710	31.2	**710**	**31.2**	693	31.9	**693**	**31.9**	693	31.9
471.omnetpp	**508**	**12.3**	508	12.3	507	12.3	465	13.4	**465**	**13.4**	465	13.4
473.astar	**509**	**13.8**	510	13.8	509	13.8	508	13.8	508	13.8	**508**	**13.8**
483.xalancbmk	**323**	**21.4**	323	21.3	323	21.4	**319**	**21.6**	319	21.6	319	21.7

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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