SPEC® CINT2006 Result

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Bull SAS

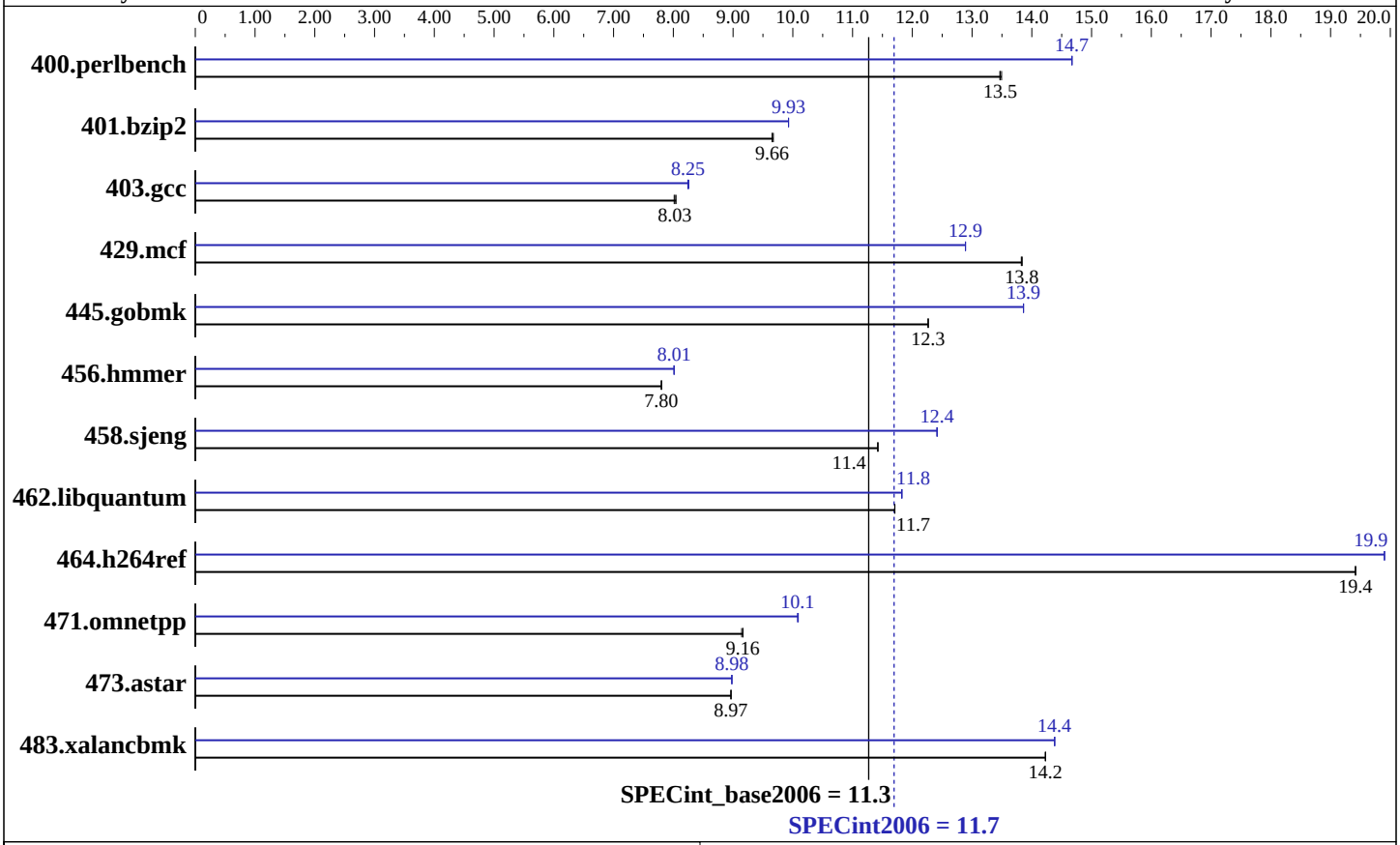
NovaScale R460
(Intel Xeon processor 5120,1.86GHz)

SPECint®2006 = 11.7

SPECint_base2006 = 11.3

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 5120
CPU Characteristics:	1.86 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz:	1866
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	724	13.5	**725**	**13.5**	726	13.5	666	14.7	**666**	**14.7**	666	14.7
401.bzip2	997	9.67	999	9.66	**999**	**9.66**	972	9.93	972	9.93	**972**	**9.93**
403.gcc	1001	8.05	**1003**	**8.03**	1004	8.01	975	8.26	**976**	**8.25**	977	8.24
429.mcf	660	13.8	**659**	**13.8**	659	13.8	707	12.9	**708**	**12.9**	708	12.9
445.gobmk	855	12.3	**855**	**12.3**	855	12.3	**757**	**13.9**	757	13.9	757	13.9
456.hmmer	1196	7.80	**1196**	**7.80**	1196	7.80	1164	8.01	1164	8.01	**1164**	**8.01**
458.sjeng	1059	11.4	1059	11.4	**1059**	**11.4**	974	12.4	**975**	**12.4**	975	12.4
462.libquantum	1770	11.7	**1770**	**11.7**	1770	11.7	1753	11.8	**1752**	**11.8**	1752	11.8
464.h264ref	1140	19.4	1140	19.4	**1140**	**19.4**	**1112**	**19.9**	1112	19.9	1112	19.9
471.omnetpp	684	9.14	**682**	**9.16**	682	9.17	**620**	**10.1**	620	10.1	619	10.1
473.astar	783	8.96	**783**	**8.97**	783	8.97	**782**	**8.98**	782	8.98	782	8.98
483.xalancbmk	**485**	**14.2**	485	14.2	485	14.2	**480**	**14.4**	480	14.4	480	14.4

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 other inquiries, please contact webmaster@spec.org.

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