SPEC® CINT2006 Result

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Bull SAS

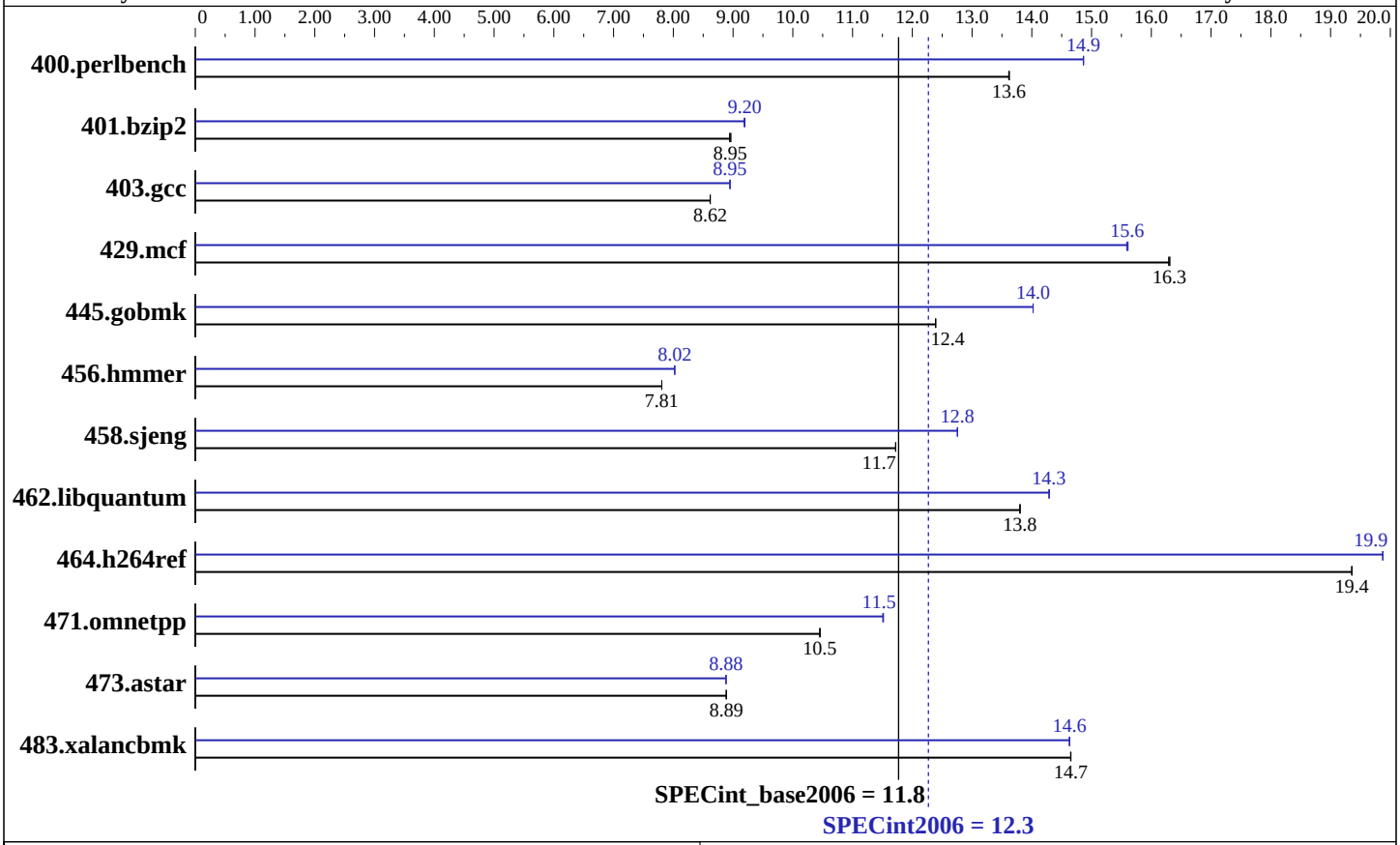
NovaScale T820
(Intel Xeon processor 3040,1.86GHz)

SPECint®2006 = 12.3

SPECint_base2006 = 11.8

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 3040
CPU Characteristics:	1.86 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	2 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1 GB) PC2-4200E ECC CL4
Disk Subsystem:	1x80 GB SATA2, 7200 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	718	13.6	717	13.6	**717**	**13.6**	657	14.9	657	14.9	**657**	**14.9**
401.bzip2	1076	8.97	1079	8.94	**1078**	**8.95**	1051	9.18	**1049**	**9.20**	1049	9.20
403.gcc	**934**	**8.62**	934	8.62	934	8.62	900	8.95	**899**	**8.95**	899	8.95
429.mcf	**559**	**16.3**	560	16.3	559	16.3	584	15.6	585	15.6	**585**	**15.6**
445.gobmk	847	12.4	**847**	**12.4**	847	12.4	**748**	**14.0**	748	14.0	748	14.0
456.hmmer	1195	7.81	**1195**	**7.81**	1195	7.81	**1163**	**8.02**	1163	8.02	1163	8.02
458.sjeng	1032	11.7	**1032**	**11.7**	1032	11.7	**949**	**12.8**	949	12.8	949	12.8
462.libquantum	1501	13.8	**1501**	**13.8**	1502	13.8	1450	14.3	1450	14.3	**1450**	**14.3**
464.h264ref	1143	19.4	**1143**	**19.4**	1143	19.4	**1114**	**19.9**	1114	19.9	1113	19.9
471.omnetpp	598	10.4	**598**	**10.5**	598	10.5	543	11.5	543	11.5	**543**	**11.5**
473.astar	790	8.89	**790**	**8.89**	790	8.89	790	8.88	**790**	**8.88**	790	8.88
483.xalancbmk	471	14.7	471	14.6	**471**	**14.7**	**472**	**14.6**	472	14.6	472	14.6

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
the uniprocessor environment
```

General Notes

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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