SPEC® CINT2006 Result

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Bull SAS

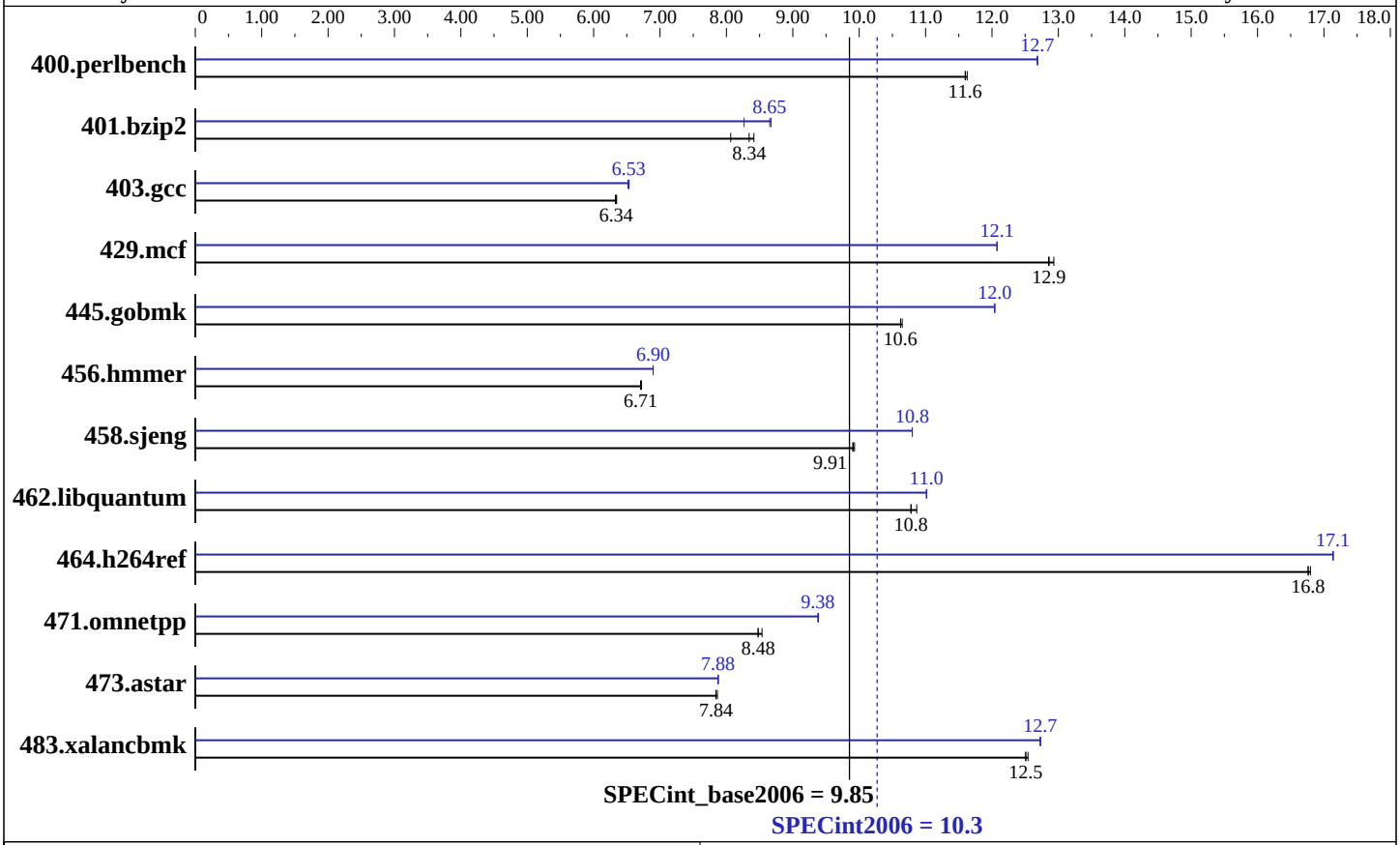
NovaScale B260 (Intel Xeon processor E5310,1.60GHz)

SPECint®2006 = 10.3

SPECint_base2006 = 9.85

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

Test date: Apr-2007
Hardware Availability: Jan-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon E5310
CPU Characteristics:	1.60 GHz, 8 MB L2, 1066 MHz bus
CPU MHz:	1600
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:	8 GB (4x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem:	1x73 GB SAS, 10000 RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition (32 bits) 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	843	11.6	**842**	**11.6**	840	11.6	770	12.7	**770**	**12.7**	770	12.7
401.bzip2	**1157**	**8.34**	1197	8.06	1147	8.41	**1115**	**8.65**	1167	8.27	1113	8.67
403.gcc	1268	6.35	1272	6.33	**1270**	**6.34**	**1233**	**6.53**	1232	6.53	1235	6.52
429.mcf	**709**	**12.9**	710	12.9	705	12.9	755	12.1	**755**	**12.1**	755	12.1
445.gobmk	**987**	**10.6**	987	10.6	985	10.6	871	12.0	**871**	**12.0**	871	12.0
456.hmmer	**1390**	**6.71**	1390	6.71	1388	6.72	1353	6.90	**1353**	**6.90**	1353	6.90
458.sjeng	**1221**	**9.91**	1222	9.90	1219	9.93	1120	10.8	**1121**	**10.8**	1121	10.8
462.libquantum	1922	10.8	**1922**	**10.8**	1907	10.9	1881	11.0	1881	11.0	**1881**	**11.0**
464.h264ref	**1320**	**16.8**	1320	16.8	1318	16.8	1291	17.1	1292	17.1	**1292**	**17.1**
471.omnetpp	**737**	**8.48**	737	8.48	732	8.54	666	9.39	**666**	**9.38**	666	9.38
473.astar	895	7.84	**895**	**7.84**	893	7.86	891	7.88	**891**	**7.88**	891	7.88
483.xalancbmk	**552**	**12.5**	552	12.5	550	12.5	542	12.7	542	12.7	**542**	**12.7**

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
```

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
```

Continued on next page

Base Optimization Flags (Continued)

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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