SPEC® CINT2006 Result

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Bull SAS

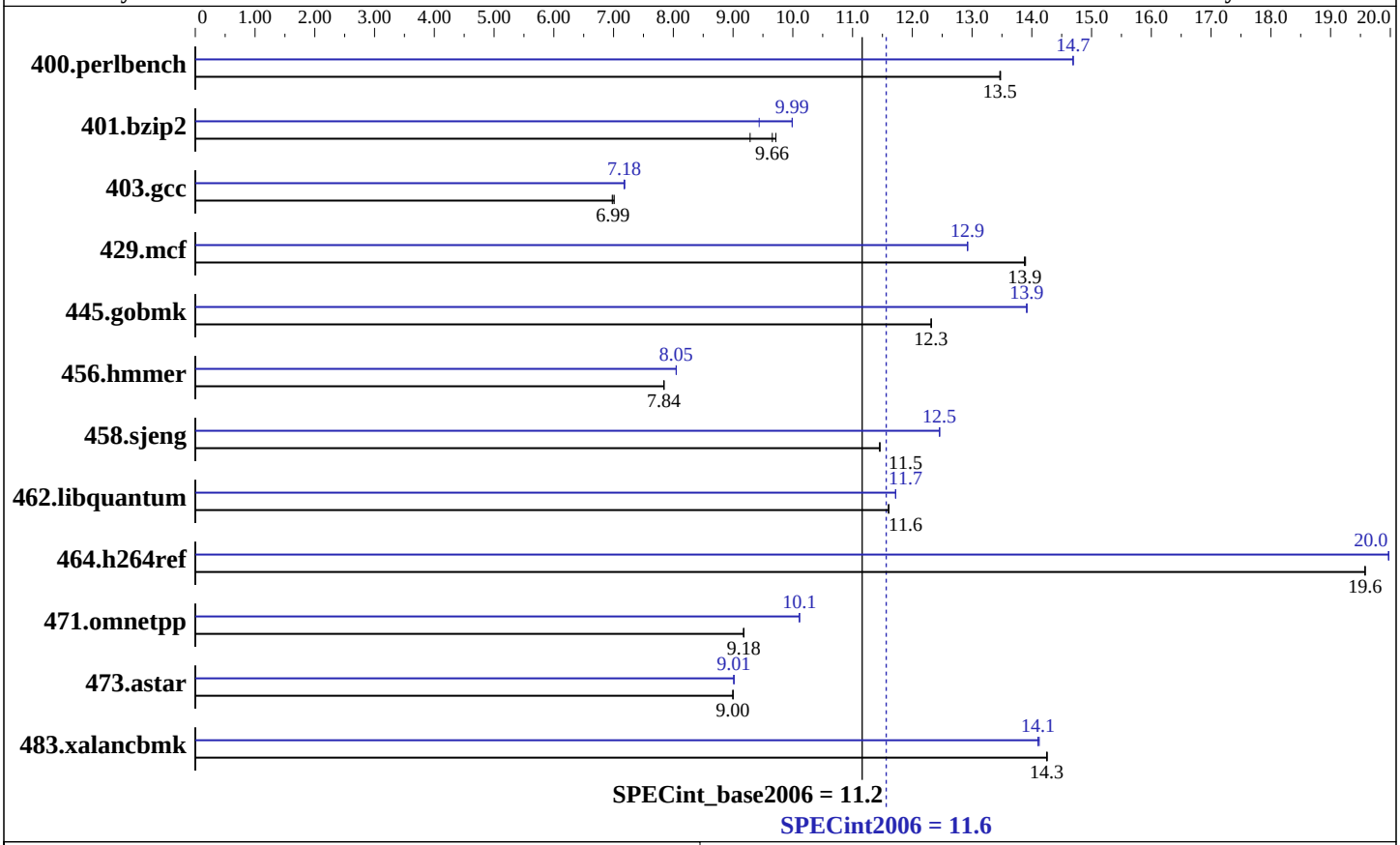
NovaScale B280 (Intel Xeon processor E5320,1.86GHz)

SPECint®2006 = 11.6

SPECint_base2006 = 11.2

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

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



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 8MB L2, 1066MHz bus
CPU MHz:	1860
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 (1GB DIMMx8, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem:	73 GB SAS, 10000RPM
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	**725**	**13.5**	725	13.5	726	13.5	665	14.7	**665**	**14.7**	665	14.7
401.bzip2	**999**	**9.66**	1039	9.29	993	9.72	**966**	**9.99**	1023	9.44	966	9.99
403.gcc	1148	7.01	**1152**	**6.99**	1154	6.98	1120	7.19	**1122**	**7.18**	1122	7.18
429.mcf	656	13.9	**657**	**13.9**	657	13.9	706	12.9	**706**	**12.9**	706	12.9
445.gobmk	**852**	**12.3**	852	12.3	852	12.3	**754**	**13.9**	754	13.9	754	13.9
456.hmmer	**1190**	**7.84**	1190	7.84	1190	7.84	1159	8.05	1159	8.05	**1159**	**8.05**
458.sjeng	**1056**	**11.5**	1056	11.5	1057	11.5	971	12.5	972	12.5	**971**	**12.5**
462.libquantum	**1785**	**11.6**	1785	11.6	1786	11.6	1768	11.7	**1768**	**11.7**	1768	11.7
464.h264ref	1130	19.6	**1130**	**19.6**	1131	19.6	1108	20.0	**1108**	**20.0**	1108	20.0
471.omnetpp	**681**	**9.18**	681	9.18	681	9.18	618	10.1	**618**	**10.1**	618	10.1
473.astar	780	9.00	**780**	**9.00**	780	9.00	779	9.01	779	9.02	**779**	**9.01**
483.xalancbmk	484	14.3	484	14.2	**484**	**14.3**	489	14.1	**489**	**14.1**	489	14.1

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

General Notes

```
Other Configuration 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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