SPEC® CINT2006 Result
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Bull SAS

NovaScale B260 (Intel Xeon processor L5320,1.86GHz)

$SPECint^{®}2006 =$ 11.5
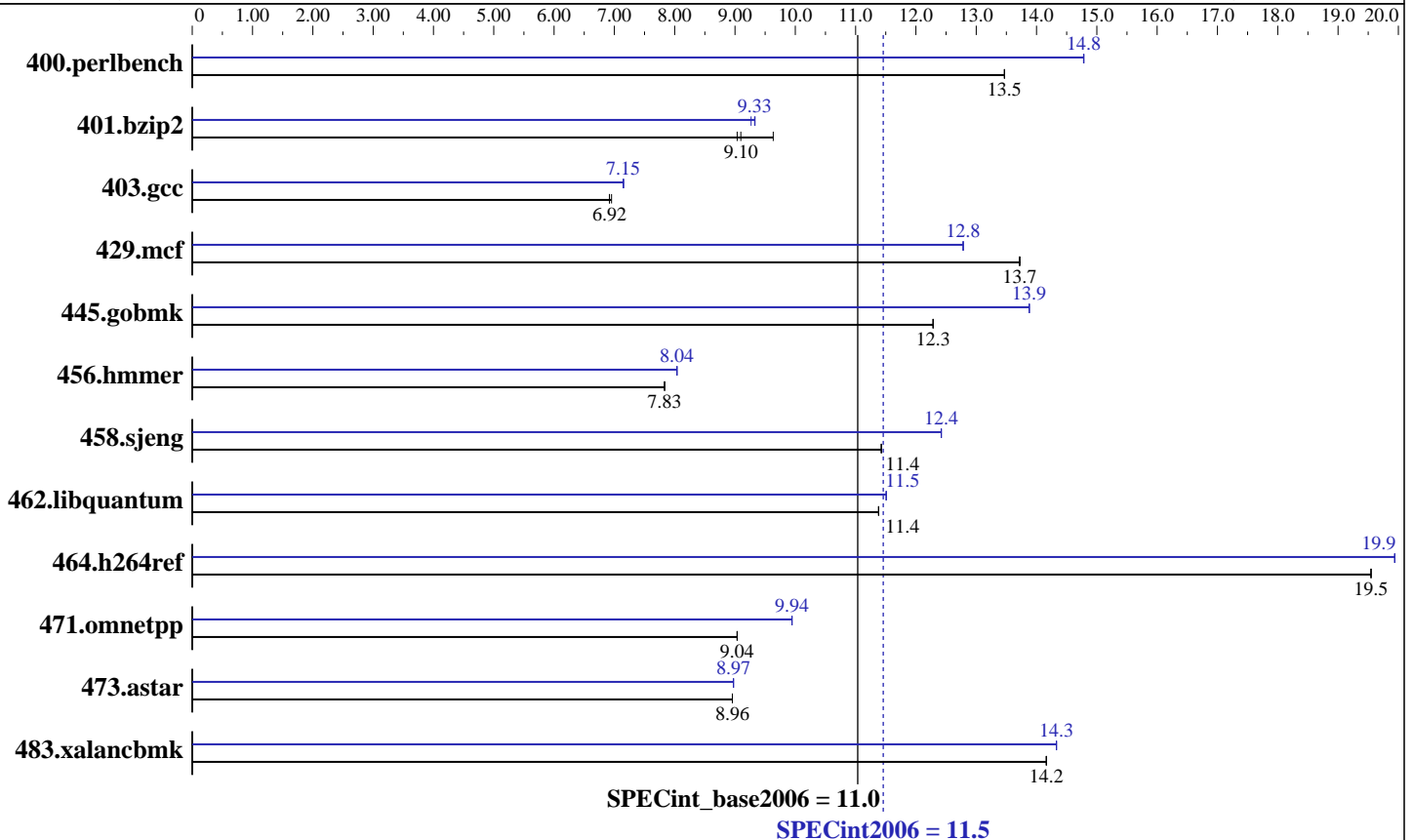
SPECint_base2006 =   11.0

CPU2006 license: 20

Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Apr-2007

Software Availability: Dec-2006

400.perlbench	14.8 / 13.5
401.bzip2	9.33 / 9.10
403.gcc	7.15 / 6.92
429.mcf	12.8 / 13.7
445.gobmk	13.9 / 12.3
456.hmmer	8.04 / 7.83
458.sjeng	12.4 / 11.4
462.libquantum	11.5 / 11.4
464.h264ref	19.9 / 19.5
471.omnetpp	9.94 / 9.04
473.astar	8.97 / 8.96
483.xalancbmk	14.3 / 14.2

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Hardware

CPU Name: Intel Xeon L5320

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 (2GB DIMMx4, 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**	726	13.5	725	13.5	661	14.8	661	14.8	**661**	**14.8**
401.bzip2	1002	9.63	**1061**	**9.10**	1068	9.04	1041	9.27	1034	9.33	**1035**	**9.33**
403.gcc	1158	6.95	**1164**	**6.92**	1164	6.92	1126	7.15	**1126**	**7.15**	1125	7.15
429.mcf	664	13.7	**665**	**13.7**	665	13.7	714	12.8	713	12.8	**713**	**12.8**
445.gobmk	854	12.3	**854**	**12.3**	854	12.3	**756**	**13.9**	756	13.9	756	13.9
456.hmmer	1191	7.83	**1191**	**7.83**	1191	7.83	1161	8.04	**1161**	**8.04**	1161	8.04
458.sjeng	1059	11.4	**1059**	**11.4**	1059	11.4	974	12.4	974	12.4	**974**	**12.4**
462.libquantum	**1820**	**11.4**	1821	11.4	1820	11.4	**1801**	**11.5**	1800	11.5	1801	11.5
464.h264ref	1132	19.5	**1132**	**19.5**	1132	19.5	1110	19.9	**1110**	**19.9**	1110	19.9
471.omnetpp	692	9.04	692	9.03	**692**	**9.04**	628	9.95	628	9.94	**628**	**9.94**
473.astar	784	8.96	784	8.96	**784**	**8.96**	782	8.97	782	8.98	**782**	**8.97**
483.xalancbmk	**487**	**14.2**	487	14.2	487	14.2	**482**	**14.3**	481	14.3	482	14.3

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
```

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Base Portability Flags (Continued)

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
```

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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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