# SPEC® CINT2006 Result

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## Bull SAS

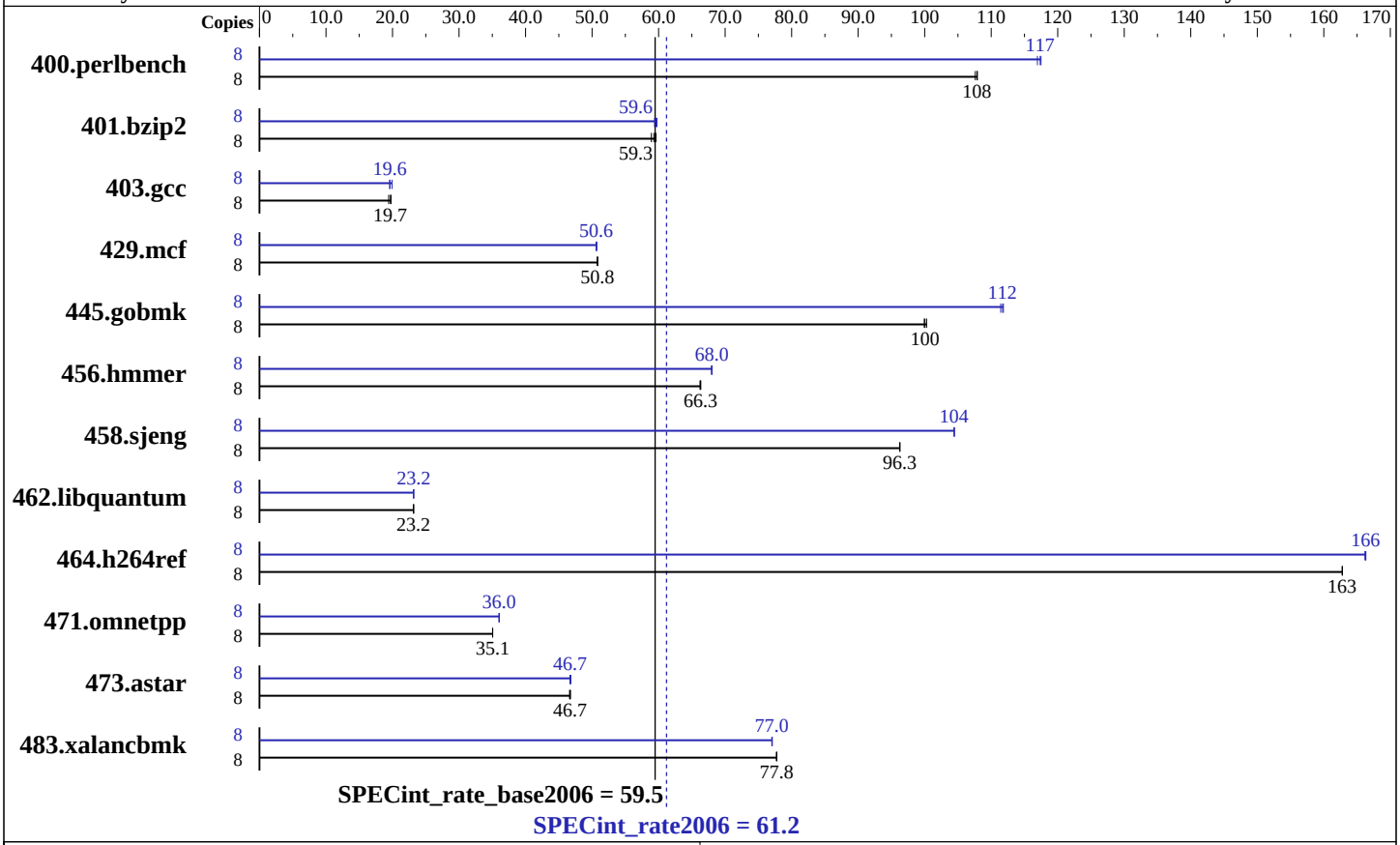
NovaScale B260 (Intel Xeon processor E5335,2.00GHz)

**SPECint®_rate2006 = 61.2**

**SPECint_rate_base2006 = 59.5**

**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 E5335 |
| CPU Characteristics: | 2.00 GHz, 8MB L2, 1333MHz bus |
| CPU MHz: | 2000 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 2 chips, 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 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 8 | 724 | 108 | **725** | **108** | 726 | 108 | 8 | **666** | **117** | 668 | 117 | 665 | 117 |
| 401.bzip2 | 8 | **1302** | **59.3** | 1295 | 59.6 | 1310 | 58.9 | 8 | 1292 | 59.8 | 1300 | 59.4 | **1295** | **59.6** |
| 403.gcc | 8 | 3257 | 19.8 | **3271** | **19.7** | 3316 | 19.4 | 8 | 3292 | 19.6 | 3231 | 19.9 | **3282** | **19.6** |
| 429.mcf | 8 | 1435 | 50.8 | 1436 | 50.8 | **1436** | **50.8** | 8 | 1442 | 50.6 | 1439 | 50.7 | **1441** | **50.6** |
| 445.gobmk | 8 | **839** | **100** | 837 | 100 | 840 | 99.9 | 8 | 753 | 111 | 750 | 112 | **751** | **112** |
| 456.hmmer | 8 | **1126** | **66.3** | 1127 | 66.2 | 1125 | 66.3 | 8 | 1097 | 68.0 | 1098 | 68.0 | **1098** | **68.0** |
| 458.sjeng | 8 | 1006 | 96.2 | **1006** | **96.3** | 1005 | 96.3 | 8 | **927** | **104** | 927 | 104 | 927 | 104 |
| 462.libquantum | 8 | 7158 | 23.2 | 7156 | 23.2 | **7156** | **23.2** | 8 | 7151 | 23.2 | **7151** | **23.2** | 7157 | 23.2 |
| 464.h264ref | 8 | 1088 | 163 | **1088** | **163** | 1087 | 163 | 8 | 1064 | 166 | **1065** | **166** | 1065 | 166 |
| 471.omnetpp | 8 | 1426 | 35.1 | 1427 | 35.0 | **1426** | **35.1** | 8 | **1388** | **36.0** | 1389 | 36.0 | 1387 | 36.0 |
| 473.astar | 8 | 1205 | 46.6 | **1203** | **46.7** | 1201 | 46.8 | 8 | **1202** | **46.7** | 1203 | 46.7 | 1200 | 46.8 |
| 483.xalancbmk | 8 | **710** | **77.8** | 710 | 77.7 | 710 | 77.8 | 8 | 717 | 77.0 | **717** | **77.0** | 716 | 77.1 |

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

## 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:

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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