# SPEC® CINT2006 Result

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## Bull SAS

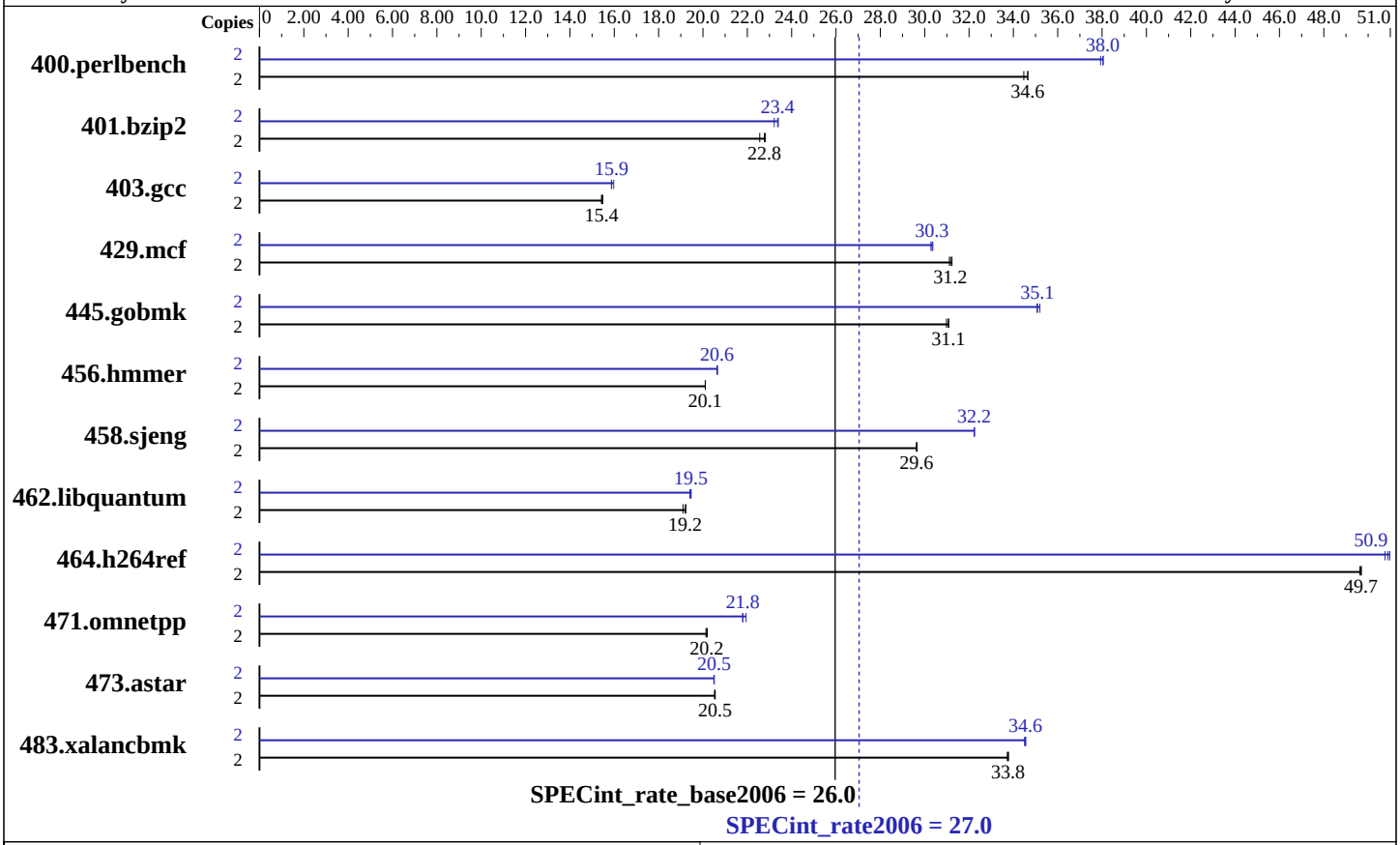
NovaScale T810 (Intel Xeon processor 3060,2.40GHz)

**SPECint®_rate2006 = 27.0**

**SPECint_rate_base2006 = 26.0**

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

**Test date:** Mar-2007
**Hardware Availability:** Feb-2007
**Software Availability:** Dec-2006




## Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon 3060 |
| CPU Characteristics: | 2.40 GHz, 4MB L2, 1066MHz bus |
| CPU MHz: | 2400 |
| FPU: | Integrated |
| CPU(s) enabled: | 2 cores, 1 chip, 2 cores/chip |
| CPU(s) orderable: | 1 chip |
| Primary Cache: | 32 KB I + 32 KB D on chip per core |
| Secondary Cache: | 4 MB I+D on chip per chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 8 GB (2GB DIMMx4, PC2-5300E ECC CL5) |
| Disk Subsystem: | 73 GB SAS, 10000RPM |
| 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 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 2 | 564 | 34.6 | **564** | **34.6** | 567 | 34.5 | 2 | 515 | 37.9 | **514** | **38.0** | 513 | 38.1 |
| 401.bzip2 | 2 | 846 | 22.8 | 855 | 22.6 | **848** | **22.8** | 2 | 825 | 23.4 | 831 | 23.2 | **826** | **23.4** |
| 403.gcc | 2 | 1044 | 15.4 | 1040 | 15.5 | **1043** | **15.4** | 2 | **1014** | **15.9** | 1008 | 16.0 | 1014 | 15.9 |
| 429.mcf | 2 | 586 | 31.1 | **585** | **31.2** | 584 | 31.2 | 2 | **601** | **30.3** | 602 | 30.3 | 601 | 30.4 |
| 445.gobmk | 2 | **675** | **31.1** | 675 | 31.1 | 677 | 31.0 | 2 | 596 | 35.2 | **598** | **35.1** | 598 | 35.1 |
| 456.hmmer | 2 | 928 | 20.1 | **928** | **20.1** | 928 | 20.1 | 2 | 904 | 20.6 | 904 | 20.6 | **904** | **20.6** |
| 458.sjeng | 2 | 817 | 29.6 | 816 | 29.7 | **816** | **29.6** | 2 | 751 | 32.2 | 751 | 32.2 | **751** | **32.2** |
| 462.libquantum | 2 | 2169 | 19.1 | **2158** | **19.2** | 2155 | 19.2 | 2 | 2135 | 19.4 | **2130** | **19.5** | 2129 | 19.5 |
| 464.h264ref | 2 | **891** | **49.7** | 891 | 49.7 | 892 | 49.6 | 2 | 872 | 50.8 | 868 | 51.0 | **870** | **50.9** |
| 471.omnetpp | 2 | 621 | 20.1 | 619 | 20.2 | **620** | **20.2** | 2 | 574 | 21.8 | **573** | **21.8** | 570 | 21.9 |
| 473.astar | 2 | 684 | 20.5 | **683** | **20.5** | 683 | 20.6 | 2 | 685 | 20.5 | **685** | **20.5** | 685 | 20.5 |
| 483.xalancbmk | 2 | 409 | 33.7 | **409** | **33.8** | 409 | 33.8 | 2 | 400 | 34.5 | **399** | **34.6** | 399 | 34.6 |

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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