# SPEC® CINT2006 Result

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## Bull SAS

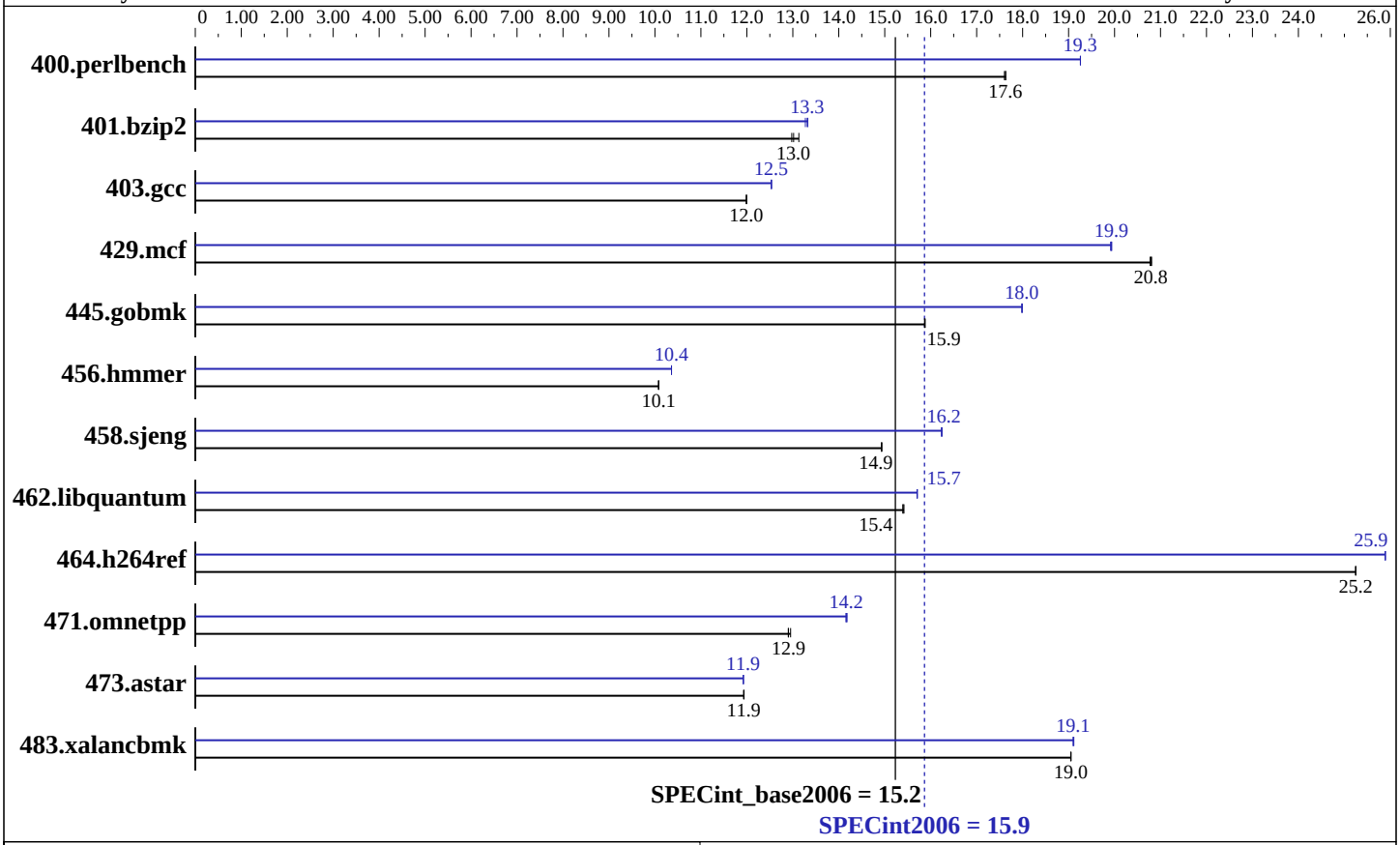
NovaScale T820
(Intel Xeon processor 3060, 2.40GHz)

SPECint®2006 = 15.9

SPECint_base2006 = 15.2

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

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




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon 3060 |
| CPU Characteristics: | 2.40 GHz, 4 MB L2, 1066 MHz system bus |
| CPU MHz: | 2400 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 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: | 4 GB (4x1 GB) PC2-4200E ECC CL4 |
| Disk Subsystem: | 1x80 GB SATA2, 7200 RPM |
| 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 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 555 | 17.6 | **554** | **17.6** | 554 | 17.6 | 507 | 19.3 | 507 | 19.3 | **507** | **19.3** |
| 401.bzip2 | 735 | 13.1 | 744 | 13.0 | **741** | **13.0** | **725** | **13.3** | 727 | 13.3 | 724 | 13.3 |
| 403.gcc | 671 | 12.0 | 671 | 12.0 | **671** | **12.0** | 642 | 12.5 | 642 | 12.5 | **642** | **12.5** |
| 429.mcf | **439** | **20.8** | 438 | 20.8 | 439 | 20.8 | 457 | 19.9 | **457** | **19.9** | 458 | 19.9 |
| 445.gobmk | 661 | 15.9 | **661** | **15.9** | 661 | 15.9 | 583 | 18.0 | **583** | **18.0** | 583 | 18.0 |
| 456.hmmer | 926 | 10.1 | 926 | 10.1 | **926** | **10.1** | 901 | 10.4 | **901** | **10.4** | 901 | 10.4 |
| 458.sjeng | 810 | 14.9 | 810 | 14.9 | **810** | **14.9** | 745 | 16.2 | 745 | 16.2 | **745** | **16.2** |
| 462.libquantum | **1345** | **15.4** | 1344 | 15.4 | 1346 | 15.4 | 1319 | 15.7 | **1319** | **15.7** | 1320 | 15.7 |
| 464.h264ref | 877 | 25.2 | **877** | **25.2** | 877 | 25.2 | 855 | 25.9 | 855 | 25.9 | **855** | **25.9** |
| 471.omnetpp | **484** | **12.9** | 483 | 13.0 | 484 | 12.9 | **441** | **14.2** | 442 | 14.2 | 441 | 14.2 |
| 473.astar | **588** | **11.9** | 588 | 11.9 | 588 | 11.9 | 589 | 11.9 | 589 | 11.9 | **589** | **11.9** |
| 483.xalancbmk | 362 | 19.0 | 362 | 19.1 | **362** | **19.0** | 361 | 19.1 | 361 | 19.1 | **361** | **19.1** |

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

## Operating System Notes

```
/NUMPROC=1 flags was added to boot.ini to invoke
the uniprocessor environment
```

## General Notes

## 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:

Continued on next page

## Peak Other Flags (Continued)

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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