# SPEC® CINT2006 Result

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## Bull SAS

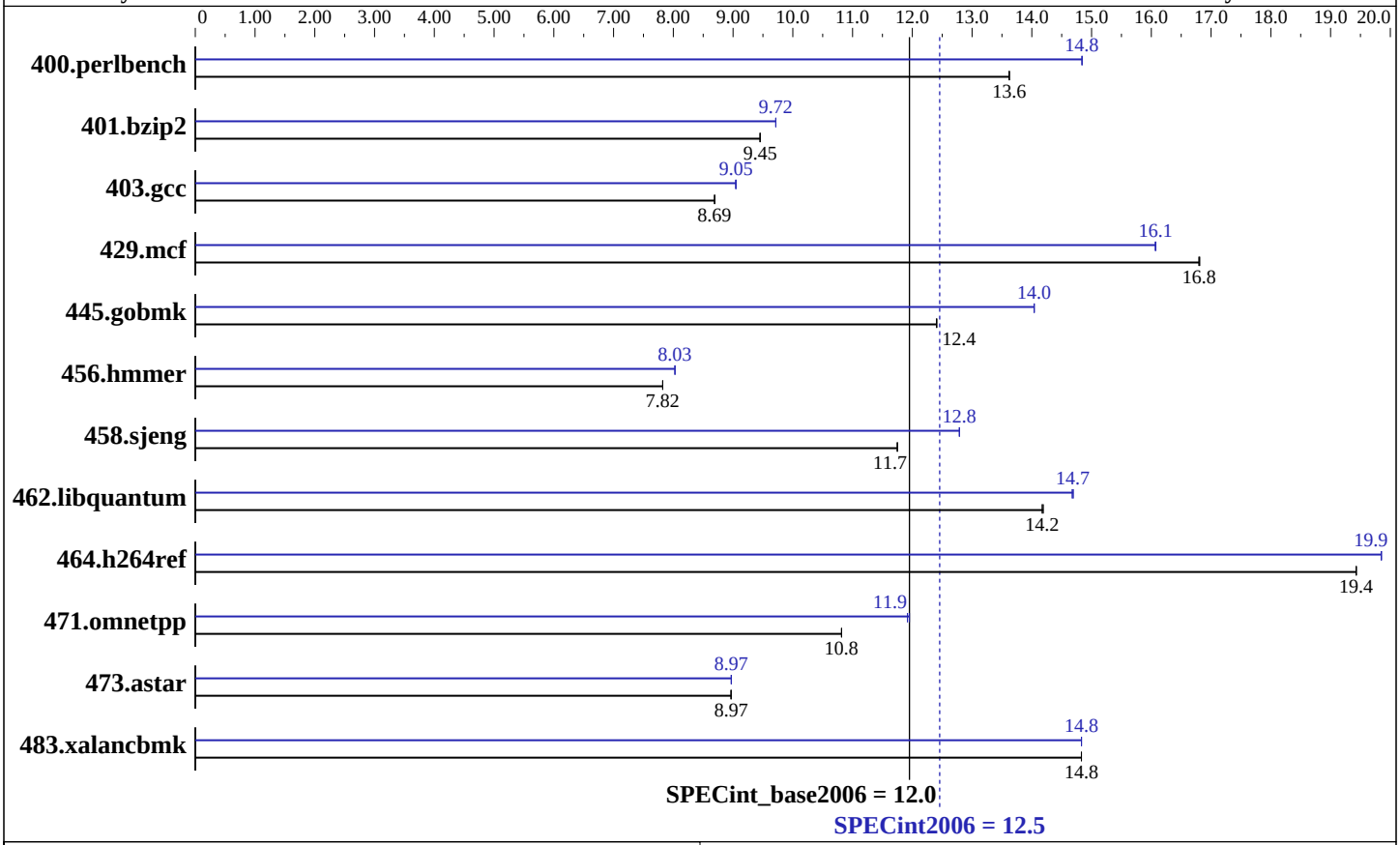
NovaScale R410
(Intel Xeon processor 3040,1.86GHz)

SPECint®2006 = 12.5

SPECint_base2006 = 12.0

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

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




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon 3040 |
| CPU Characteristics: | 1.86 GHz, 4 MB L2, 1066 MHz system bus |
| CPU MHz: | 1860 |
| 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: | 2 MB I+D on chip per chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 8 GB (4x2 GB) PC2-5300E ECC CL5 |
| Disk Subsystem: | 1x80 GB SATA, 10000 RPM |
| 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 | **717** | **13.6** | 717 | 13.6 | 717 | 13.6 | 658 | 14.8 | **658** | **14.8** | 658 | 14.8 |
| 401.bzip2 | **1021** | **9.45** | 1021 | 9.45 | 1021 | 9.45 | 993 | 9.71 | 993 | 9.72 | **993** | **9.72** |
| 403.gcc | 926 | 8.69 | **926** | **8.69** | 926 | 8.69 | 889 | 9.05 | **890** | **9.05** | 890 | 9.04 |
| 429.mcf | 542 | 16.8 | **543** | **16.8** | 543 | 16.8 | **567** | **16.1** | 568 | 16.1 | 567 | 16.1 |
| 445.gobmk | **846** | **12.4** | 845 | 12.4 | 846 | 12.4 | **747** | **14.0** | 747 | 14.0 | 747 | 14.0 |
| 456.hmmer | 1193 | 7.82 | 1193 | 7.82 | **1193** | **7.82** | 1162 | 8.03 | 1162 | 8.03 | **1162** | **8.03** |
| 458.sjeng | **1030** | **11.7** | 1030 | 11.8 | 1030 | 11.7 | 946 | 12.8 | **946** | **12.8** | 946 | 12.8 |
| 462.libquantum | 1460 | 14.2 | 1462 | 14.2 | **1462** | **14.2** | **1411** | **14.7** | 1412 | 14.7 | 1410 | 14.7 |
| 464.h264ref | **1139** | **19.4** | 1139 | 19.4 | 1139 | 19.4 | 1115 | 19.9 | **1115** | **19.9** | 1115 | 19.8 |
| 471.omnetpp | 578 | 10.8 | **578** | **10.8** | 578 | 10.8 | **524** | **11.9** | 523 | 12.0 | 524 | 11.9 |
| 473.astar | 783 | 8.97 | 783 | 8.97 | **783** | **8.97** | 783 | 8.97 | **783** | **8.97** | 783 | 8.97 |
| 483.xalancbmk | 465 | 14.8 | 465 | 14.8 | **465** | **14.8** | 465 | 14.8 | **465** | **14.8** | 465 | 14.8 |

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

## Operating System Notes

```
/NUMPROC=1 flag 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.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/flags.20090714.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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