# SPEC® CINT2006 Result



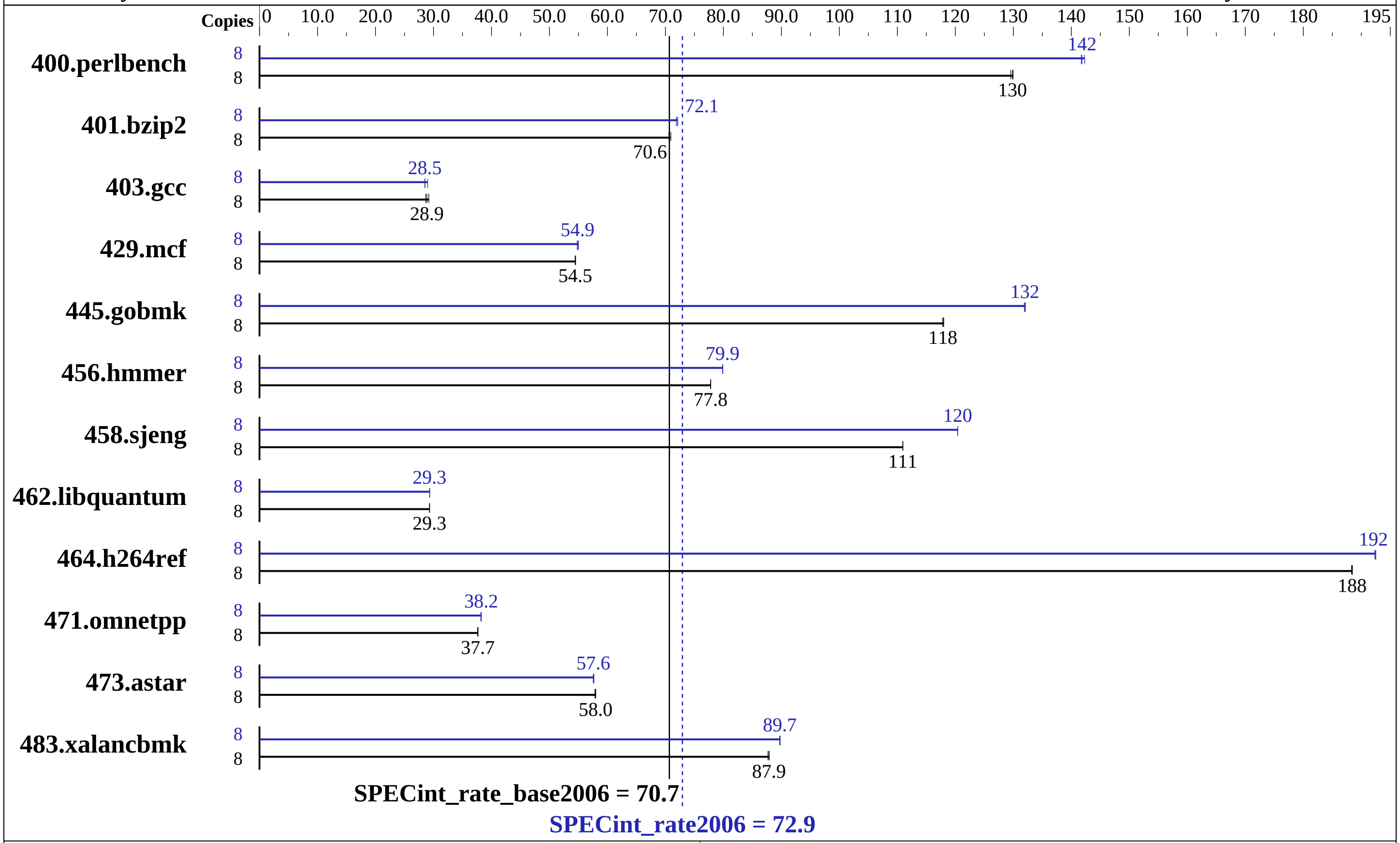
## Bull SAS

NovaScale R440
(Intel Xeon processor E5345,2.33GHz)

SPECint®_rate2006 = 72.9

SPECint_rate_base2006 = 70.7

| | | | |
|---|---|---|---|
| **CPU2006 license:** 20 | | **Test date:** | Apr-2007 |
| **Test sponsor:** | Bull SAS | **Hardware Availability:** | Mar-2007 |
| **Tested by:** | Bull SAS | **Software Availability:** | Dec-2006 |




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon E5345 |
| CPU Characteristics: | 2.33 GHz, 8MB L2, 1333MHz bus |
| CPU MHz: | 2330 |
| 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: | 24 GB (2GB DIMMx12, FB-DIMM PC2-5300F ECC CL5) |
| Disk Subsystem: | 73 GB SAS, 10000RPM |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 R2 Enterprise X64 Edition Service Pack1 |
| Compiler: | Intel C++ Compiler for IA32 version 9.1<br>Package ID W_CC_C_9.1.033 Build no 20061103Z<br>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 | **602** | **130** | 603 | 130 | 601 | 130 | 8 | 549 | 142 | 552 | 142 | **551** | **142** |
| 401.bzip2 | 8 | 1093 | 70.6 | 1088 | 70.9 | **1093** | **70.6** | 8 | **1071** | **72.1** | 1071 | 72.1 | 1074 | 71.9 |
| 403.gcc | 8 | 2205 | 29.2 | 2246 | 28.7 | **2229** | **28.9** | 8 | 2258 | 28.5 | **2257** | **28.5** | 2221 | 29.0 |
| 429.mcf | 8 | 1340 | 54.4 | **1340** | **54.5** | 1338 | 54.5 | 8 | 1331 | 54.8 | 1326 | 55.0 | **1330** | **54.9** |
| 445.gobmk | 8 | 712 | 118 | 711 | 118 | **712** | **118** | 8 | 636 | 132 | 635 | 132 | **636** | **132** |
| 456.hmmer | 8 | 959 | 77.8 | **959** | **77.8** | 960 | 77.8 | 8 | 934 | 79.9 | 934 | 79.9 | **934** | **79.9** |
| 458.sjeng | 8 | 873 | 111 | 873 | 111 | **873** | **111** | 8 | 804 | 120 | 804 | 120 | **804** | **120** |
| 462.libquantum | 8 | 5654 | 29.3 | **5654** | **29.3** | 5650 | 29.3 | 8 | 5649 | 29.3 | **5651** | **29.3** | 5651 | 29.3 |
| 464.h264ref | 8 | **940** | **188** | 940 | 188 | 939 | 188 | 8 | 920 | 192 | 920 | 193 | **920** | **192** |
| 471.omnetpp | 8 | 1329 | 37.6 | **1328** | **37.7** | 1327 | 37.7 | 8 | 1307 | 38.2 | **1308** | **38.2** | 1310 | 38.2 |
| 473.astar | 8 | **969** | **58.0** | 968 | 58.0 | 971 | 57.8 | 8 | 976 | 57.6 | 974 | 57.7 | **975** | **57.6** |
| 483.xalancbmk | 8 | **628** | **87.9** | 628 | 87.9 | 630 | 87.7 | 8 | 616 | 89.7 | **615** | **89.7** | 615 | 89.8 |

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

## General Notes

```
The NovaScale R440 and the NovaScale R460 models are
electronically equivalent.
The results have been measured on a NovaScale R440 model.
```

## 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



For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
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