# SPEC® CINT2006 Result

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## IBM Corporation

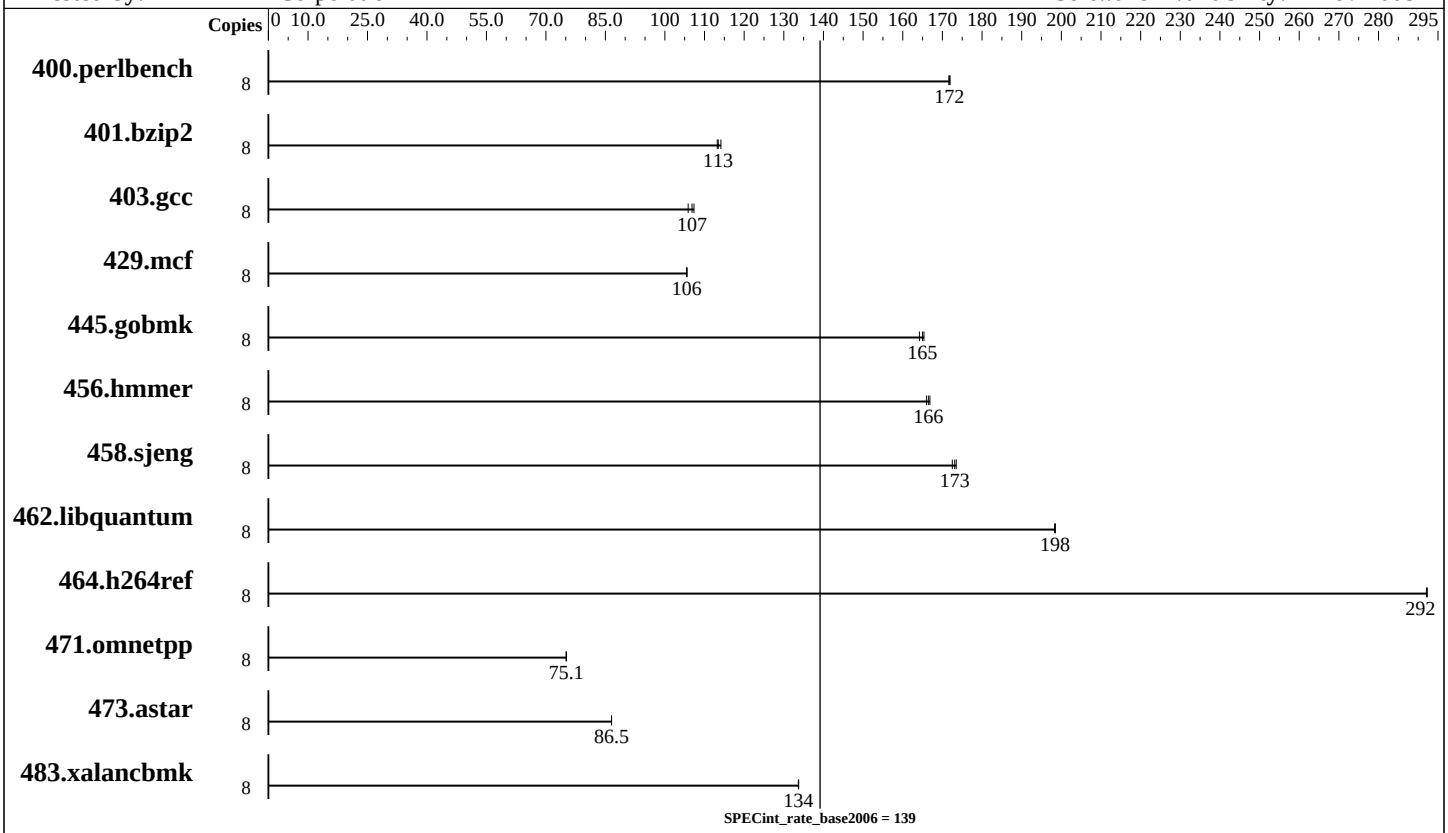
## IBM System x3650 (Intel Xeon X5470)

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = 139

**CPU2006 license:** 11
**Test sponsor:** IBM Corporation
**Tested by:** IBM Corporation

**Test date:** Sep-2008
**Hardware Availability:** Nov-2008
**Software Availability:** Nov-2008




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon X5470 |
| CPU Characteristics: | 1333MHz system bus |
| CPU MHz: | 3333 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 2 chips, 4 cores/chip |
| CPU(s) orderable: | 1,2 chips |
| Primary Cache: | 32 KB I + 32 KB D on chip per core |
| Secondary Cache: | 12 MB I+D on chip per chip, 6 MB shared / 2 cores |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 16 GB (8 x 2 GB DDR2-5300F ECC) |
| Disk Subsystem: | 1 x 36 GB SAS, 15000 RPM |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | SuSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp |
| Compiler: | Intel C++ Compiler 11.0 for Linux Build 20080730 Package ID: l_cproc_b_11.0.042 |
| Auto Parallel: | No |
| File System: | ReiserFS |
| System State: | Run level 3 (multi-user) |
| Base Pointers: | 32-bit |
| Peak Pointers: | Not Applicable |
| Other Software: | Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502 |

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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 | 455 | 172 | **455** | **172** | 455 | 172 | | | | | | | |
| 401.bzip2 | 8 | **680** | **113** | 682 | 113 | 676 | 114 | | | | | | | |
| 403.gcc | 8 | 600 | 107 | **603** | **107** | 608 | 106 | | | | | | | |
| 429.mcf | 8 | **691** | **106** | 691 | 106 | 692 | 105 | | | | | | | |
| 445.gobmk | 8 | **509** | **165** | 511 | 164 | 508 | 165 | | | | | | | |
| 456.hmmer | 8 | 450 | 166 | **448** | **166** | 447 | 167 | | | | | | | |
| 458.sjeng | 8 | 561 | 173 | **559** | **173** | 558 | 173 | | | | | | | |
| 462.libquantum | 8 | 836 | 198 | **835** | **198** | 835 | 198 | | | | | | | |
| 464.h264ref | 8 | **606** | **292** | 606 | 292 | 606 | 292 | | | | | | | |
| 471.omnetpp | 8 | 665 | 75.2 | **666** | **75.1** | 666 | 75.1 | | | | | | | |
| 473.astar | 8 | 649 | 86.6 | **649** | **86.5** | 649 | 86.5 | | | | | | | |
| 483.xalancbmk | 8 | 413 | 134 | 413 | 134 | **413** | **134** | | | | | | | |

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

## Submit Notes

```
The config file option 'submit' was used.
taskset was used to bind processes to cores except for 462.libquantum peak
```

## General Notes

```
All benchmarks compiled in 32-bit mode
Hardware Prefetch Disabled, Adjacent Sector Prefetch Disabled
'ulimit -s unlimited' was used to set the stack size to unlimited prior to run
```

## Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

## Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

## Base Optimization Flags

C benchmarks:
```
-xSSE4.1 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3 -opt-prefetch
```

C++ benchmarks:
```
-xSSE4.1 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/spec/cpu2006.1.1/lib -lsmartheap
```

## Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.03.html
http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090713.02.html
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.04.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.03.xml
http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090713.02.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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