# SPEC® CINT2006 Result



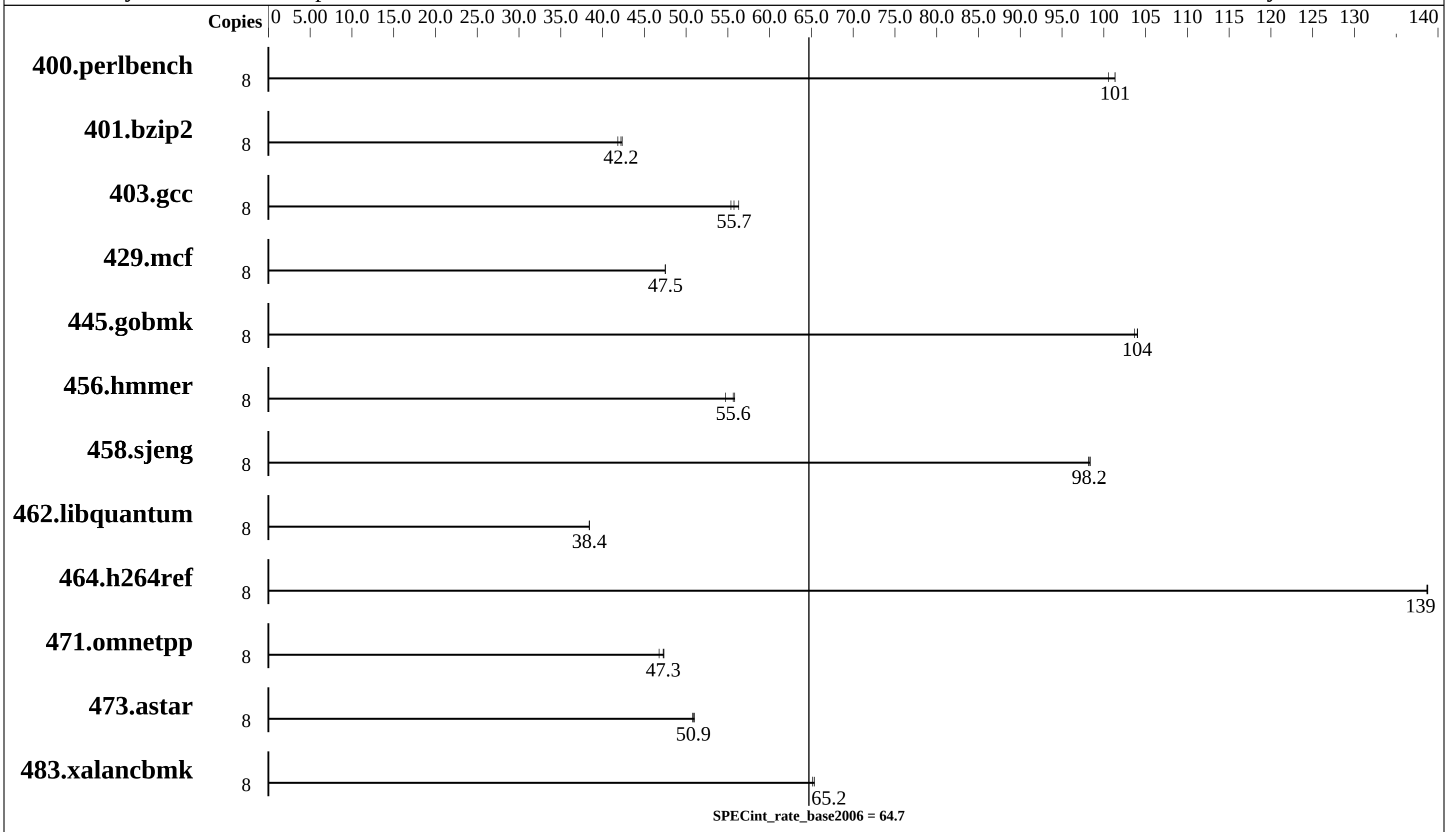
## IBM Corporation

**SPECint®_rate2006 = Not Run**

IBM System x3850 M2 (Intel Xeon E7320)

**SPECint_rate_base2006 = 64.7**

| | | | |
|---|---|---|---|
| **CPU2006 license:** | 11 | **Test date:** | Mar-2008 |
| **Test sponsor:** | IBM Corporation | **Hardware Availability:** | Nov-2007 |
| **Tested by:** | IBM Corporation | **Software Availability:** | Nov-2007 |




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon E7320 |
| CPU Characteristics: | Quad Core, 2.13 GHz |
| CPU MHz: | 2133 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 2 chips, 4 cores/chip |
| CPU(s) orderable: | 1,2,4 chips |
| Primary Cache: | 32 KB I + 32 KB D on chip per core |
| Secondary Cache: | 4 MB I+D on chip per chip, 2 MB shared / 2 cores |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 64 GB (32 x 2 GB DDR2-5300 ECC) |
| Disk Subsystem: | 1 x 146 GB SAS, 10000 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 10.1 for Linux Build 20070913 Package ID: l_cc_p_10.1.008 |
| Auto Parallel: | No |
| File System: | ReiserFS |
| System State: | Multi-user, run level 3 |
| Base Pointers: | 32-bit |
| Peak Pointers: | Not Applicable |
| Other Software: | MicroQuill SmartHeap 8.1 Binutils 2.17.50.0.15 |

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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 | 777 | 101 | 771 | 101 | **771** | **101** | | | | | | | |
| 401.bzip2 | 8 | 1823 | 42.4 | **1829** | **42.2** | 1846 | 41.8 | | | | | | | |
| 403.gcc | 8 | 1144 | 56.3 | 1163 | 55.4 | **1156** | **55.7** | | | | | | | |
| 429.mcf | 8 | **1535** | **47.5** | 1536 | 47.5 | 1535 | 47.5 | | | | | | | |
| 445.gobmk | 8 | 807 | 104 | 809 | 104 | **807** | **104** | | | | | | | |
| 456.hmmer | 8 | **1342** | **55.6** | 1364 | 54.7 | 1337 | 55.8 | | | | | | | |
| 458.sjeng | 8 | 984 | 98.4 | **985** | **98.2** | 986 | 98.2 | | | | | | | |
| 462.libquantum | 8 | 4313 | 38.4 | 4317 | 38.4 | **4313** | **38.4** | | | | | | | |
| 464.h264ref | 8 | 1277 | 139 | **1276** | **139** | 1276 | 139 | | | | | | | |
| 471.omnetpp | 8 | **1058** | **47.3** | 1056 | 47.3 | 1069 | 46.8 | | | | | | | |
| 473.astar | 8 | 1101 | 51.0 | 1106 | 50.8 | **1104** | **50.9** | | | | | | | |
| 483.xalancbmk | 8 | 844 | 65.4 | **847** | **65.2** | 847 | 65.2 | | | | | | | |

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

## General Notes

```
All benchmarks compiled in 32-bit mode
taskset utility used to bind CPU(s) processes
```

## 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:
`-fast -inline-calloc -opt-malloc-options=3`

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# Base Optimization Flags (Continued)

C++ benchmarks:
```
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/spec/users/rahul/cpu2006.1.0/lib -lsmartheap
```

# Base 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/Intel-ic10.1-INT-ia32-linux-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10.1-INT-ia32-linux-flags.xml



Tested with SPEC CPU2006 v1.0.
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