

Process of calibrating the built-in real-time clock

1. Highly accurate system clock synchronization. This is a critical part of RTC calibration. The PC clock must be synchronized with an error of no more than 0.1s. Windows users can perform clock synchronization using menu *Adjust date and time*->*Additional settings*->*Sync now*. Please note that windows synchronization may not work if your system clock deviation is already less than a second, in this case you need to change system time manually and then push *Sync now* again. Use <https://time.is/> to make sure that yours system time is accurate.

TIME.IS

Your time is exact!

The difference from Time.is was +0.035 seconds (± 0.093 seconds).

2. Connect your cart via USB and run **1_start_cal.bat**. Do it quickly after step 1, because your system clock will drift with the time. After it done, disconnect the cartridge from usb.
3. Wait 10-20 hours (more is better) and repeat step 1
4. Connect your cart via usb and run **2_end_cal.bat**. At this point calibration is complete.

Properly calibrated RTC has deviation around 5sec per month if battery voltage and ambient temperature is stable.