5 Storage Elements

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In the proevious chapter we have had a look onto memory devices, which store data even when no voltage is applied. This is great for longterm storage, like measurement data, pictures or music. The clock frequency of the storage element are often much lower than the internal frequency of the processor / controller. By this, the processor has to wait for the stored information due to high access time.

Therefore an controller-internal memory is advantageous. These are often called cache. Distinct storage elements have special properties, e.g. the written data changes the logic level of a pin ('foot') of the IC directly. We will now focus onto these controller-internal, fast memory.

5.1 Flipflop as a Blackbox

Fig. ##: Simulation of a PAL

further Links

- https://www.electronics-tutorials.ws/sequential/seq_1.html
- https://www.electronics-tutorials.ws/counter/count_1.html