

Design of Embedded Systems (DES), Assignment 7

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Ex07c

By pressing the button the led light either turns off or on. However we found an undesired behavior: sometimes the light does not turn on/off when pressing the button. In these cases we noticed that the counter value increased by 2 or more and thus not changing the state of the light (or changing it too rapidly).

A possible reason might be that the program uses nanoseconds, however button presses do generally not occur in nanoseconds and there is also variance in humans pressing the button. For example someone might be halfway in realising the button and then the system might be unable to decide whether this is a press or not.