

# COSE321 Computer Systems Design

## Assignment #6

### No late turn-in accepted

You want to see the cache's impact on performance. Write a program (either assembly-only **or** assembly + C), which takes an input from a switch 0 (SW0) on Zedboard and enables caches (L1 and L2) depending on the switch input. If the switch 0 is on, the caches are enabled. If the switch is in the off position, the caches are disabled. When the caches are disabled, the LEDs should be blinking with the time interval of roughly 1 second.

Check out the linker script and make sure that your program is loaded to external memory (DDR). It seems though that even when the section is allocated to internal OCM, the cache effect is still visible with blinking LEDs.

#### What and How to submit:

1. Upload **your source code (assembly + C (??))** to Blackboard.
2. Upload **video clip (2-min?)** to Blackboard. Your video clip should have **at least** the following contents:
  - Your smiling face
  - Understandable explanation of your code
  - Demo on Zedboard

**Note: This is an individual assignment. You are welcome to discuss, but DO NOT COPY solutions. If you are found to copy solutions from others or slightly modify the solutions from others, both of you will be given 0 credits.**