

Exercise 8 – Due Thursday 11/14 before noon

In this week's exercise you are going to familiarize yourself with the Watchdog Timer Module. For this exercise use the **cWDTSkeleton** application in the cs450 directory as your starting point.

- A) In the **MSP430F1611 User Guide**, read the following pages well enough to complete the rest of the exercise:

10-1 to 10-6

10-7 to 10-10 (cursorily)

- B) The skeleton code is missing the watchdog commands to either disable the watchdog or keep the watchdog from resetting the system. Setup the watchdog to use ACLK as clock source and to reset the MCU if it has not been fed after 250 ms.
- C) Find a way to keep the watchdog fed before the 250 ms runs out.
- D) After each reset, turn LED2 on if the reset was caused by the watchdog. Otherwise, turn on LED0.
- E) Use the infinite loop in the main()-function to verify that the watchdog can bring the MCU back to a known state after it gets stuck.
- F) Upload your C file to Blackboard with all the above.