Laboratory Six
μC/OS-II, a real-time operating system

Objectives:

1. To familiarize with some of the features of the uCOS-II RT Kernel
2. To use some of the facilities provided by μC/OS-II.

Hardware Build:

i. Maintain hardware from pervious labs.

Task One:

Follow the instructions of the Lab TA to create a project using the uCOS-II source code along with a demo application task. Compile the code and program into the Flash memory. Run the program through NOICE12 and verify its results.

Task Two:

You are required to develop two different tasks (threads) within μC/OS-II for this task (your program should perform them simultaneously):

1. Using μC/OS-II functions, create a periodic signal at the frequency specified in the Prelab Assignment, or determined by your Lab TA. This task does not require an interrupt handler.
2. Essentially, repeat Task One Part a but now using μC/OS-II functions to handle the Timer Channel interrupts.

Load your updated μC/OS-II in the on-chip Flash Memory. Demonstrate the correct execution of Task Three without the BDM Module.