Embedded Hardware and Operating Systems

Week 3 Assignment Report

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BlinkC.nc

The BlinkC module is implemented in this file. This module uses 3 timer interfaces, 1 led interface and 1 booting interface. When the module is initiated, timers are set to begin counting down periodically. There are also seperate event functions to do specific tasks for each time a timer fires. I defined the interface for the 3rd timer in the definition. I also added timer3 start to the boot function and added an event function for timer3 that prints a line to the debugger.

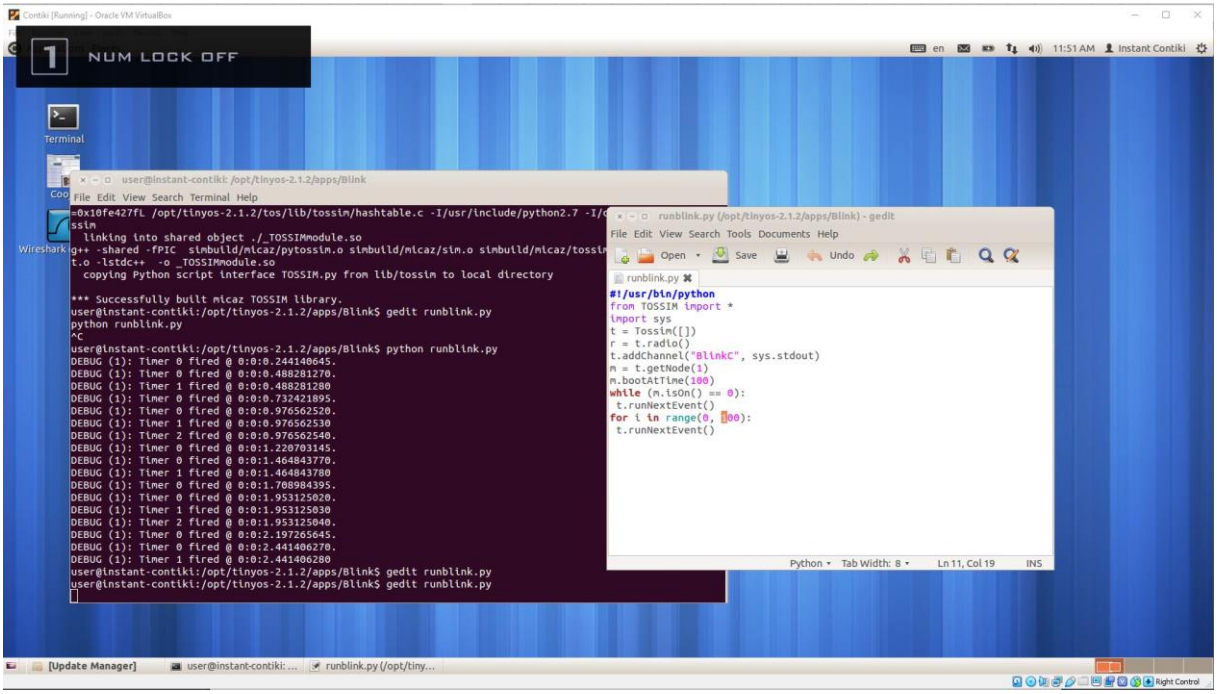
BlinkAppC.nc

This file defines the blink application. In the implementation, 3 timers are created and connected to the interfaces of BlinkC module. MainC and LedsC modules are connected to the BlinkC module as well. I created another timer module as Timer3 and wired it to the BlinkC module.

runblink.py

In this file, the Tossim simulator object is created, BlinkC module output is connected to the terminal, the the BlinkApp module is created and booted. I increased the range of the for loop from 100 to 2000 to run the simulation for longer.

Original application output



Modified application output