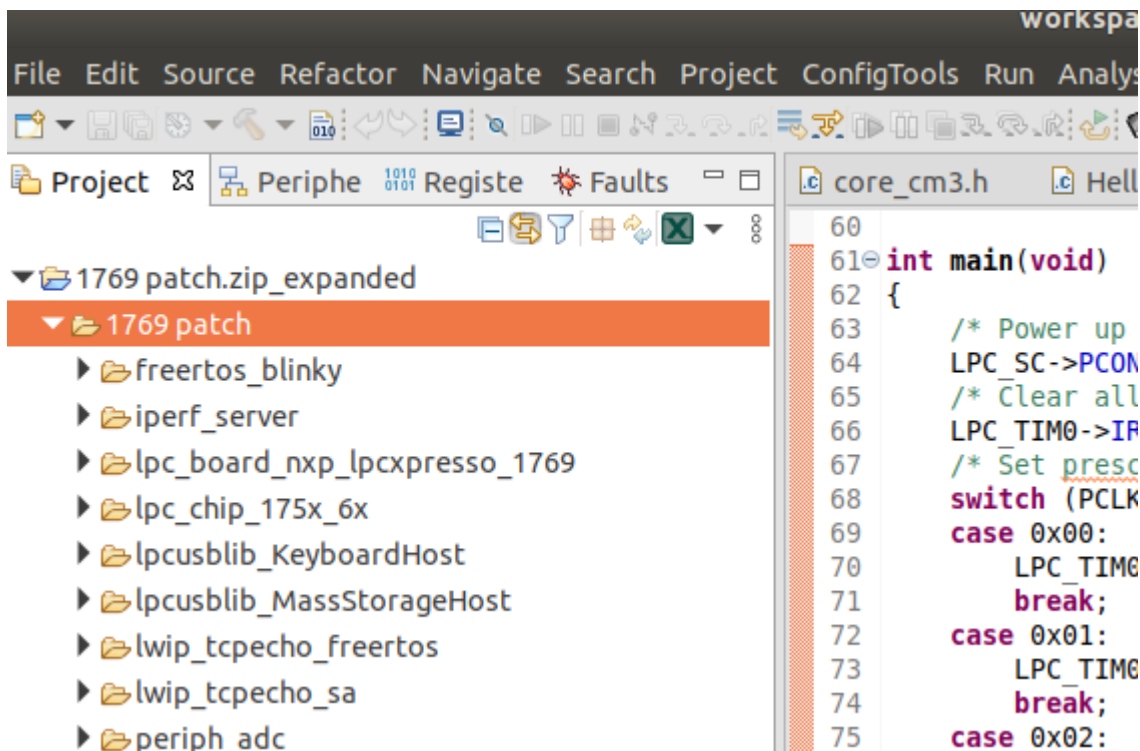


CMPE 244
Homework CPU Architecture and Sample IDE

1. Use LPC1769 CPU datasheet as an example to create a CPU block diagram based on the discussion in the class, e.g.,
 - 1.1. Find CPU or SOC (System on Chip) block diagram of your chosen platform (Jetson NANO, Nvidia Jetson Tx2, or Pie) and copy it into word document.
 - 1.2. Identify the GPP port controller (general purpose port block, e.g., GPIO block) in the block diagram;
 - 1.3. Find the target board connector diagram and place this diagram in your word document. Then choose 2 GPIO pins, one for output and one for input, for the coming GPIO hello-the-world assignment.
2. Install NXP MCU Expresso and import LPC1769 patch. You can find the LPC1769 patch download from here
<https://github.com/hualili/CMPE240-Adv-Microprocessors/blob/master/1769%20patch.zip>
- Note: this IDE will allow us to analyze special purpose registers and their init & config, as well as mapping CPU architecture to memory map, and then making the connection to IDE cross compiler.
3. Submission:
 - 3.1. Canvas submission;
 - 3.2. pdf format of your homework;
 - 3.3 provide screen capture photo of your installed NXP MCU Expresso which shows the imported LPC 1769 patch (see Figure below).



(END)