

# WES237B - Lab 3

ARM Cortex-A9 PMU  
Performance Profiling

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Summer 2017

# Lab3\_1: Reading PMU events

- Make sure to set date: `$date --set "July 15 2017 HH:MM:SS"`
- Insert CPUcntr.ko module to kernel
- In **src/main.cpp** complete the code for **pmn\_config()**
- In **include/cycletime.h**, replace **CRn**, **CRm**, and **Op2** with appropriate values.
  - Compile your code and use the **README** file to run your code.

# Lab3\_3: Downsampling

- Make sure to connect your SRD radio and an headphone to your zedboard
- Make sure your radio works, run **test.sh** in **release** folder: # ./test.sh
- Change your directory to **lab3\_3**
- Create a new directory **release**: # mkdir release
- Change the directory to the new **release** directory: # cd release
- Run cmake: # cmake ..
- Complete the code in **src\rtl\_fm\_wes.c**
- Run make: # make
- Check your code by running **run.sh** (you should be able to hear classic music!): # ./run.sh