

## Homework 5

Due Monday 2/3/20

1. Decide on the precision that you will use for the lookup table in Lab 1.
2. Create the memory initialization file for a ROM of this size and precision.
  - a. Use the Matlab script *rsqrt\_lookup\_table\_mif\_gen.m* found in the Lab 1 directory on D2L.
  - b. Upload the .mif file to the lab 5 assignment folder on D2L.
3. Create a ROM using the IP Catalog in Quartus (Panel on right side of Quartus).
  - a. Following the directions in the document *Creating\_ROM.pdf* found in the Lab 1 directory on D2L.
  - b. Upload the generated .vhd file to the lab 5 assignment folder on D2L.