ECE571: Advanced Microprocessor Design – Homework 9 Spring 2017

Due: Thursday 13 April 2016, 11am

Create a document that contains the answers to the questions below. A .pdf or .txt file is preferred but I can accept MS Office or Libreoffice format if necessary.

- 1. Read the following article:
 - A Validation of DRAM RAPL Power Measurements by Desrochers, Paradis and Weaver http://web.eece.maine.edu/~vweaver/projects/rapl/2016_memsys_rapl.pdf (warning, it's a large 13MB download, large graphs)
- 2. Answer the following questions:
 - (a) What kind of sensor was using for measuring actual DRAM power?
 - (b) What tool was used to measure RAPL results?
 - (c) Did the actual results match the DRAM results?
 - (d) Why is it harder to measure DDR4 power than DDR3 power?
 - (e) What additional experiments do you think could be run that would make this paper better?
- 3. Submitting your work.
 - Create the document containing the answers to the questions asked.
 - Please make sure your name appears in the document.
 - e-mail the file to me by the homework deadline.