

ECE571: Advanced Microprocessor Design – Homework 2
Spring 2017

Due: Thursday 2 February 2017, 11:00am

Create a document that contains the data and answers described in the sections below. A .pdf or .txt file is preferred but I can accept MS Office or Libreoffice format if necessary.

1. Read the paper *Producing Wrong Data Without Doing Anything Obviously Wrong!* by Mytkowicz, Diwan, Hauswith and Sweeney (ASPLOS 2009).
<https://www.cis.upenn.edu/~cis501/papers/producing-wrong-data.pdf>
2. Answer the following questions:
 - (a) What is measurement bias?
 - (b) Why can changing the UNIX environment size change program performance?
 - (c) What are two of the suggested ways that can be used to avoid measurement bias?
 - (d) Did you see any measurement bias with regard to link order in Homework 1?
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.