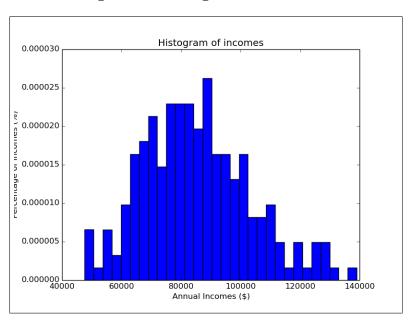
Problem Set #4

MACS 30010, Dr. Evans Yang Hou

Problem 1 Part (a).

Figure 1: Histogram for Income



Part (b).

The result of the test is: $[[0.0019079\ 0.00123533]\ [0.00217547\ 0.0019646\]]$

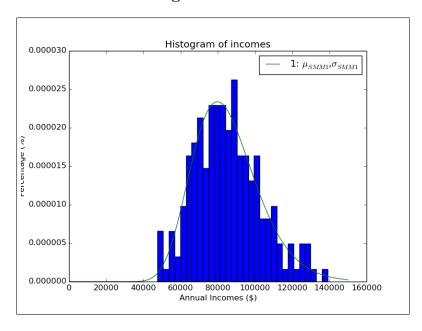
Part (c).

The mu is 11.330637236 and the sig is 0.2092293707

Data mean is: 85276.8236063 Data std is: 17992.542128 model mean is: 85276.8280717 model std is: 17992.5430829

The value of the criterion function is: [[5.55827975e-15]]

Figure 2: smm



Part (d).

The m is 11.3306372141 the sig is 0.209229359136

Data mean is: 85276.8236063 Data std is: 17992.542128

 $model\ mean\ is:\ 85276.8259939\ model\ std\ is:\ 17992.5416292$

The value of the criterion function is: [[0.0001776]]

Figure 3: two-step

