Assignment 4

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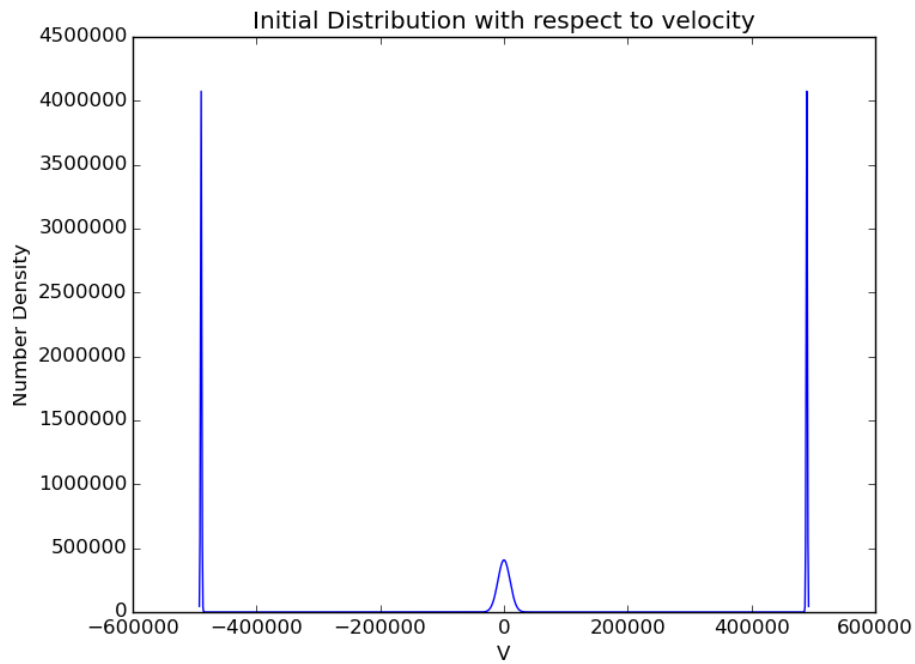
1 Question1:

Refer code.
It takes of the order of 1.56721581558s to consider it as a steady state.

2 Question 2
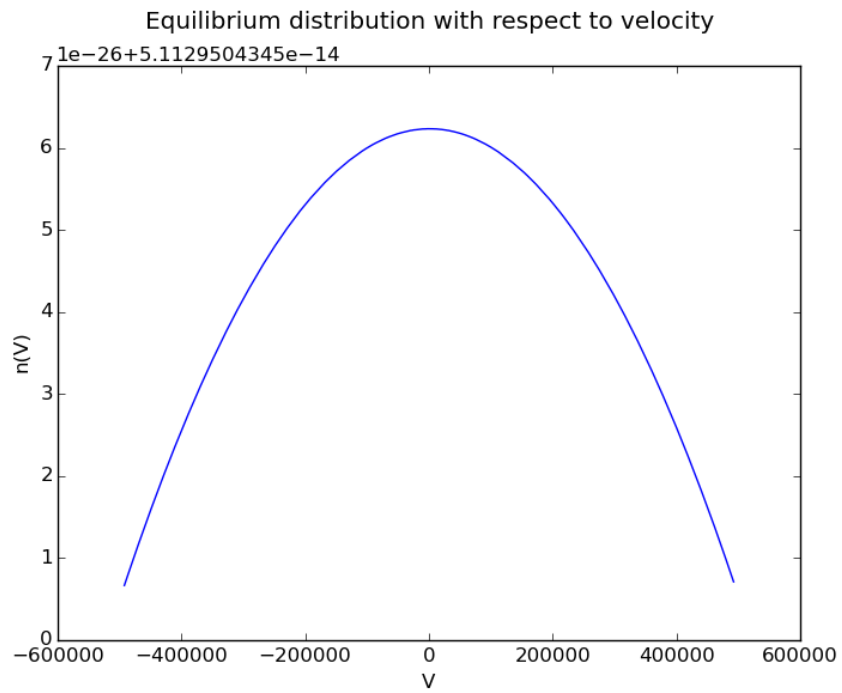
Distribution function is given as

3 Question 3

Refer code.
The density computed numerically is about 0.042854309082 and temperature is about 1.16683191751e+15eV

4 Question 4

The equilibrium distribution function is given by

Equilibrium distribution with respect to velocity

5 Question5

Refer code.
It takes of the order of 65.9797858359 s to deviate from maxwellian.

6 Question6

The development of entropy is given as follows.

Development of entropy