

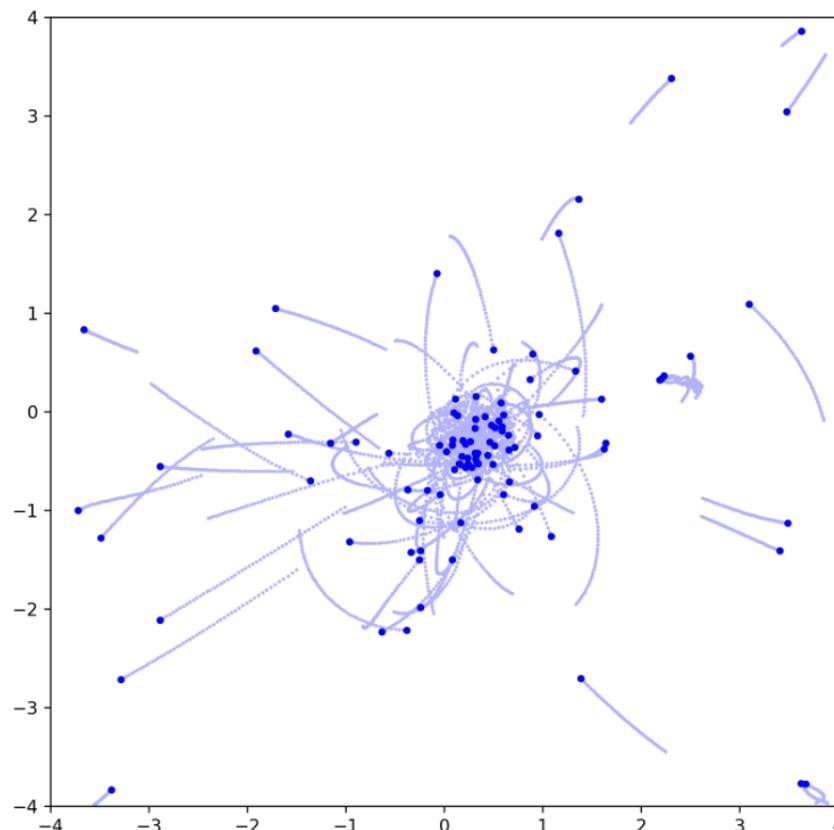
Assignment 4 - N-body simulation

GitHub: <https://github.com/yosunlu/repo759/tree/main/HW04>

Problem 1:

Please review the introduction to the N-body problem above. Ensure that you understand both the algorithm and the Python code.

- Install Python library numpy and matplotlib: `python3 -m pip install numpy matplotlib`
- Run the [nbody.py](#) script either on your personal machine or on the Euler compute node. If you run it locally, you will see an animation of the N-body simulation. At the end of the simulation, the code will automatically save a plot. Rename this plot as task1.png and submit it to Canvas.



Problem 4:

1. a) In task3.cpp, try the following scheduling policies: static, dynamic, and guided.

2. b) On Euler, via Slurm do the following:

For each scheduling policy, run task3 with the following parameters:

- number of particles = 100 or larger
- simulation end time = 100 or larger
- num threads = 1,2,...,8

