

PFLOCK Report

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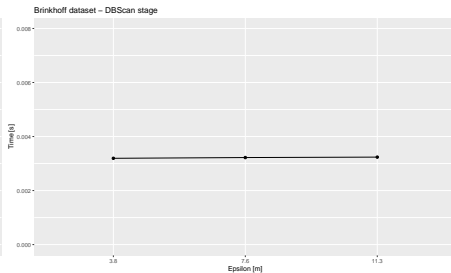
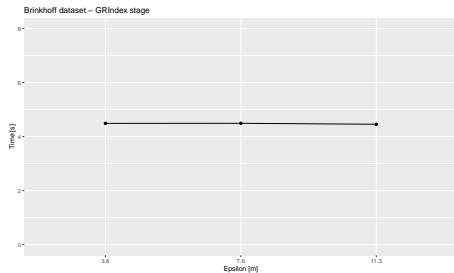
October 11, 2019

Working on Brinkhoff dataset

- ▶ Run experiments with the original dataset.
- ▶ Setting parameters according to paper:
 - ▶ Epsilon[m]: 3.77, 7.55 and 11.33
 - ▶ Width[m]: 300
- ▶ Running on Cluser (10 nodes, 12 cores each) and Standalone (1 core)
- ▶ Collect execution time for GRIndex and DBScan stages.

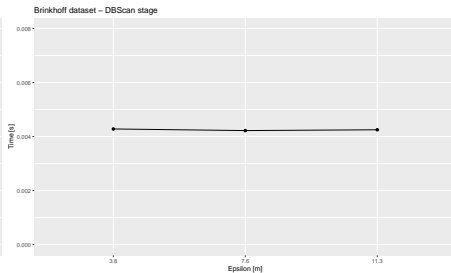
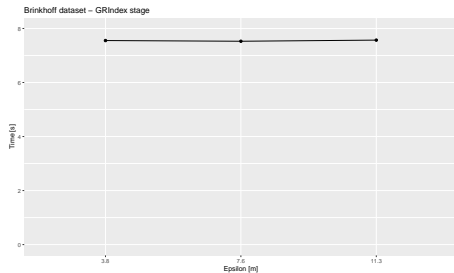
Performing experiments in Brinkhoff dataset

Cluster: 500 Time instants.



Performing experiments in Brinkhoff dataset

Standalone: 100 Time instants.



Fixed Length Bit Compression method

- ▶ I have solved the issue with the streaming environment, but I would like to talk about the rate of data ingestion.
- ▶ I have finished the implementation in order to find flocks. Tests with dummy data are ok.

What is next?

- ▶ Integrate Fixed Length Bit Compression method with the GRIndex routine and our implementation.
- ▶ Run experiments with LA_25K and LA_50K. (Alternatively GeoSparkSim¹).
- ▶ Explore suitable real datasets (NYTaxis, eBirds).

¹<http://www.public.asu.edu/~jiayu2/geospark/publication/geosparksim-mdm-2019.pdf>