PFLOCK Report

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Candidate pruning bottleneck...

We have to deal with +188K candidates...

Candidate pruning bottleneck...

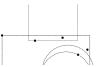$\varepsilon = 20$ and $\mu = 3$

<div align="center">Indeed...</div>

- ▶ Average size of maximal disks hold in the tree: 25.88
- ▶ Average size of candidate disks query to the tree: 17.70

Currently working on PSB →PSI...

Plane sweeping [80%]

Currently working on PSB →PSI...

Binary signature [50%]

Alternative trajectory datasets...

ny_bikes [Citi Bike NY]

Trajectories: 2'734.157   Time span: March 2023

Alternative trajectory datasets...

ny_taxis [TLC Trip Record Data]

Trajectories: 14'336.486   Time span: October 2013

What's next?

▶ Complete implementation for PSB (plane sweeping and binary signatures)...
▶ Run interpolation for new datasets...
▶ Start working on temporal dimension...
  ▶ Explore 3D partitioners...