

# Disolv – Dataflow-centric Integrated Simulation of Large-scale VANETs

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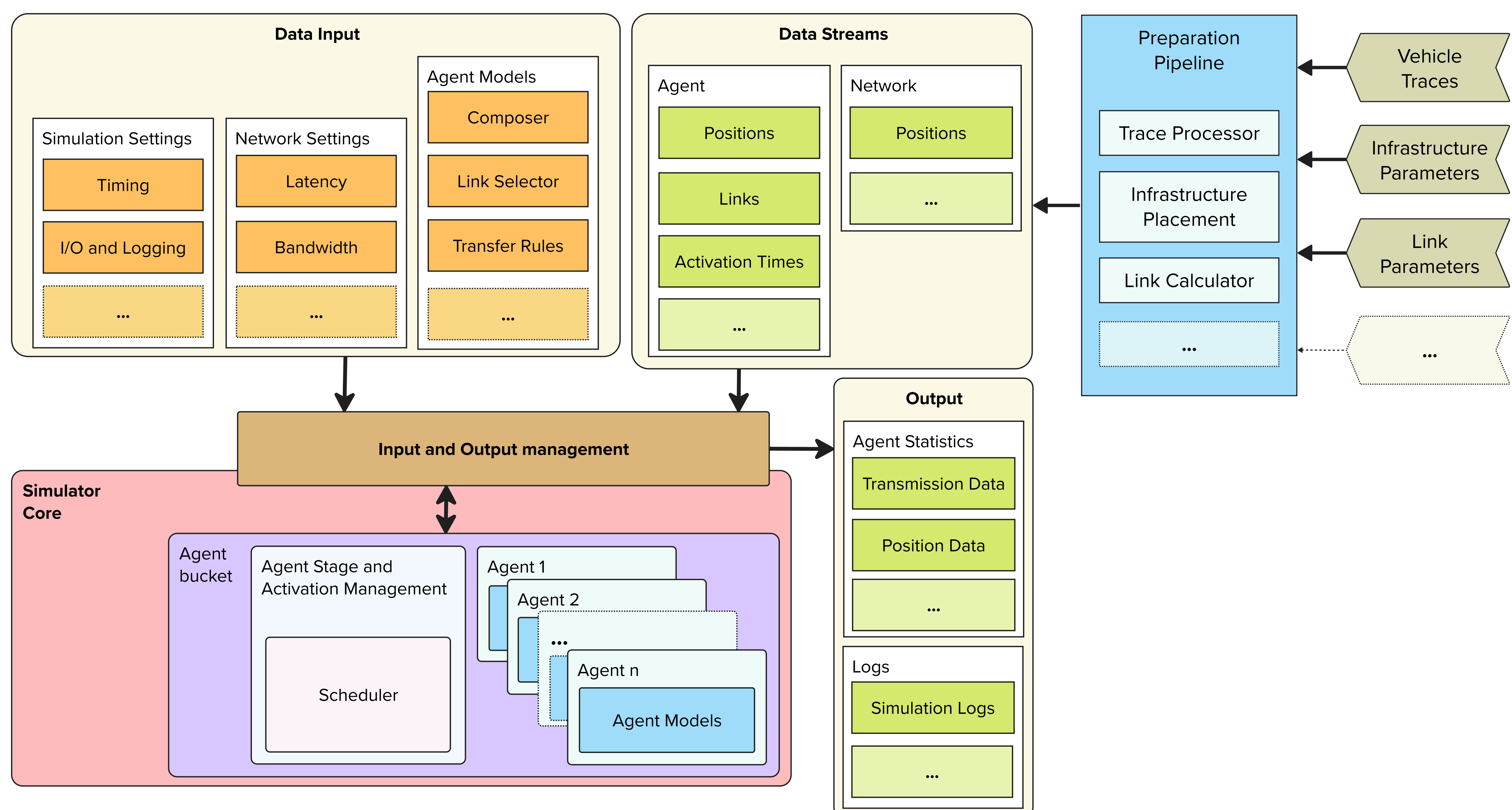
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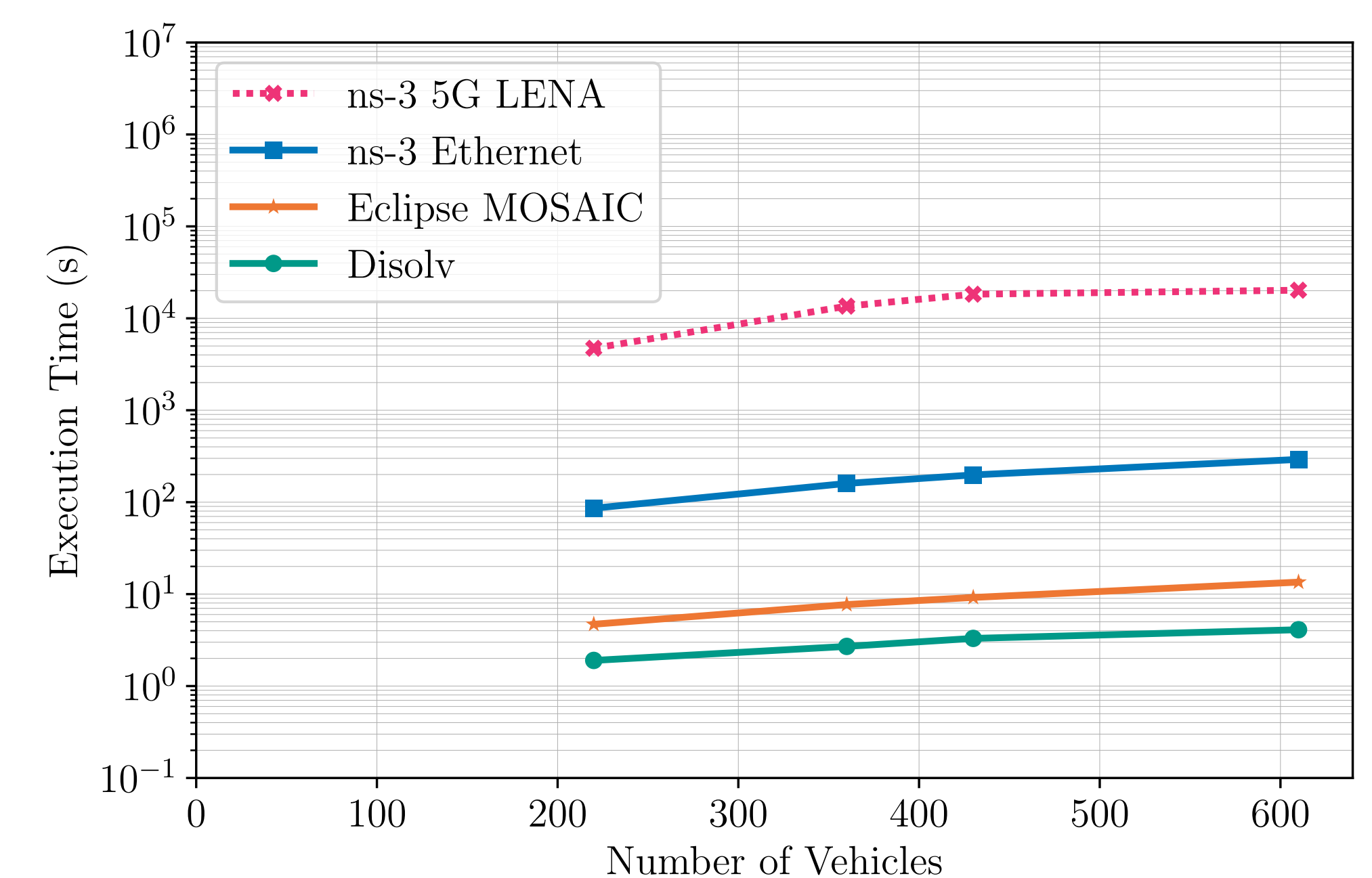
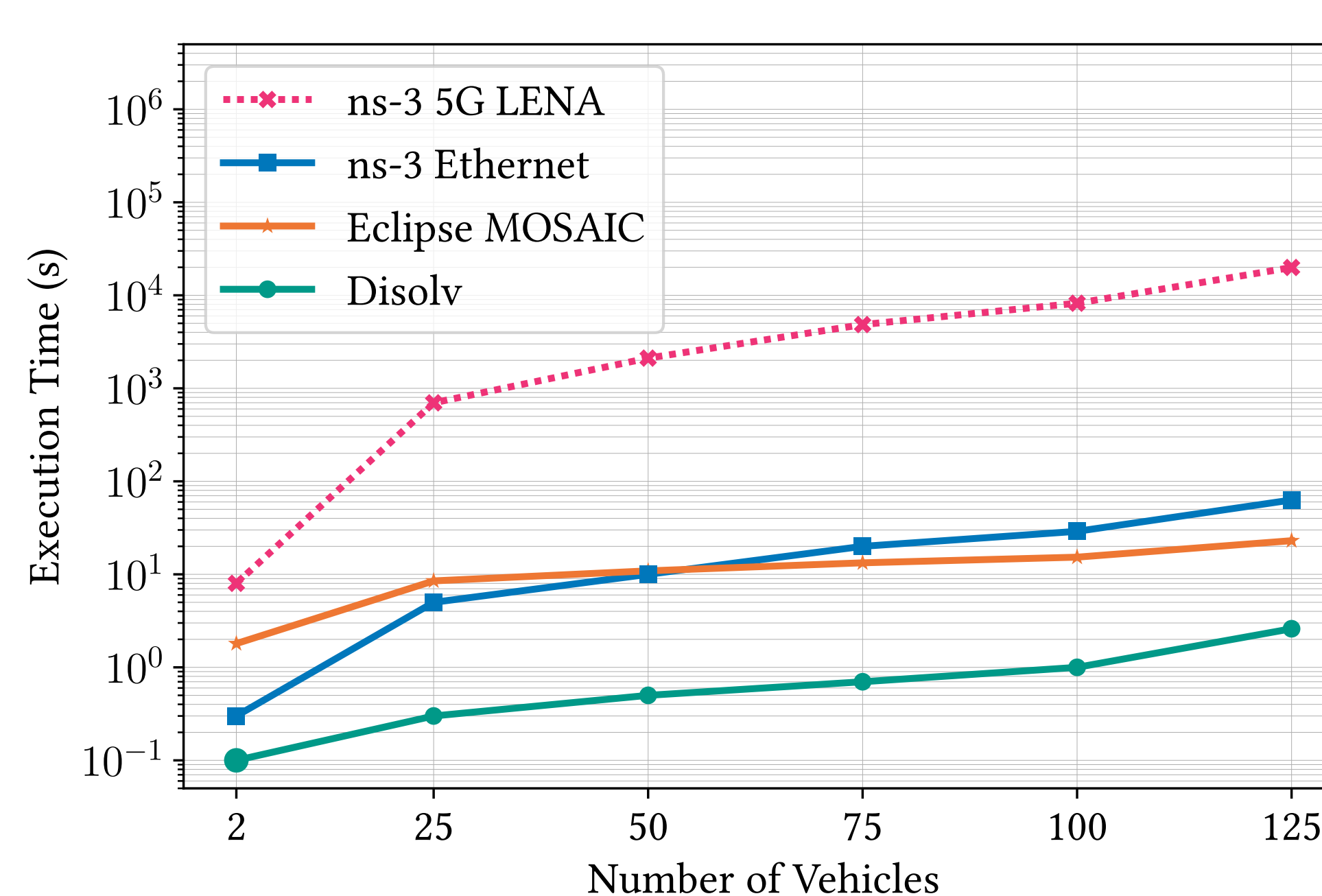
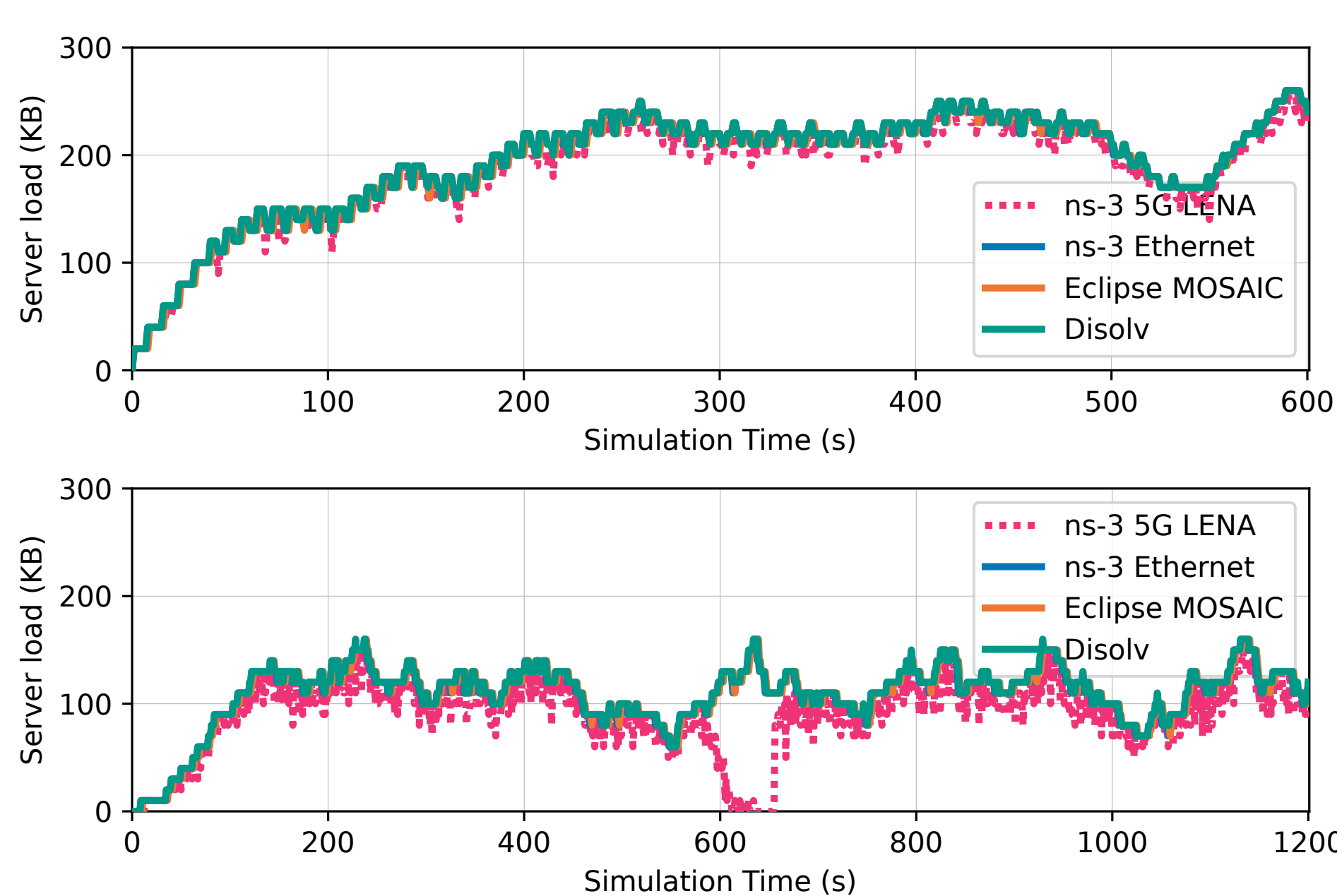
## Abstract

Large-scale VANET simulations are computationally intensive. Disolv is a simulation architecture proposed to support city-scale VANET studies. This paper describes software decisions taken to realize a concrete implementation of Disolv. We describe a common workflow and provide guidelines on best utilizing Disolv. Finally, a small experiment demonstrates the performance gains by comparing the execution times with state-of-the-art VANET simulators.

## Concept



## Fidelity and Speed



## References

[1] N. T. Tangirala, C. Sommer, and A. Knoll, "Simulating Data Flows of Very Large Scale Intelligent Transportation Systems," in 2024 ACM SIGSIM International Conference on Principles of Advanced Discrete Simulation (SIGSIM-PADS 2024), Atlanta, GA, Jun. 2024.