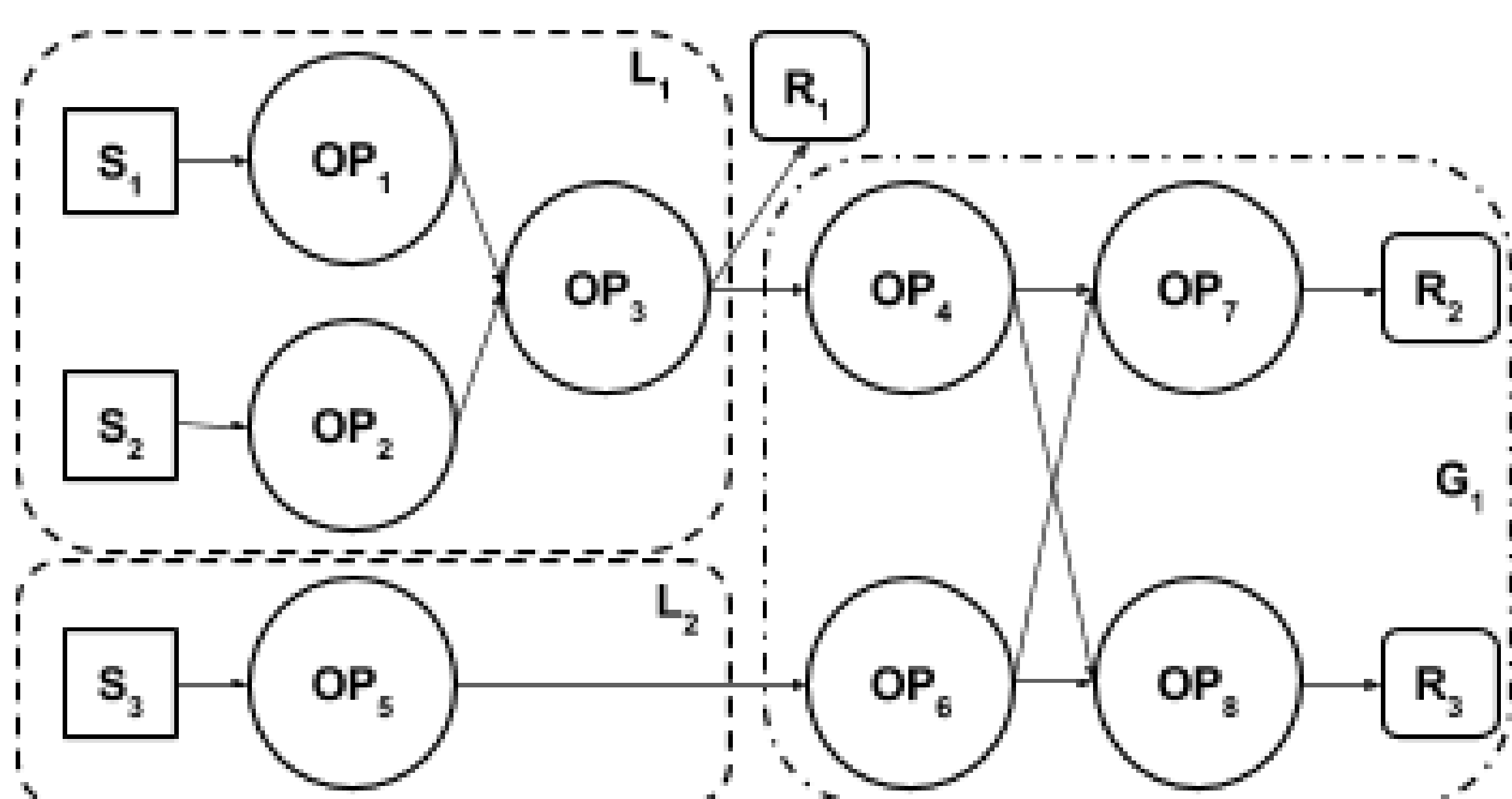


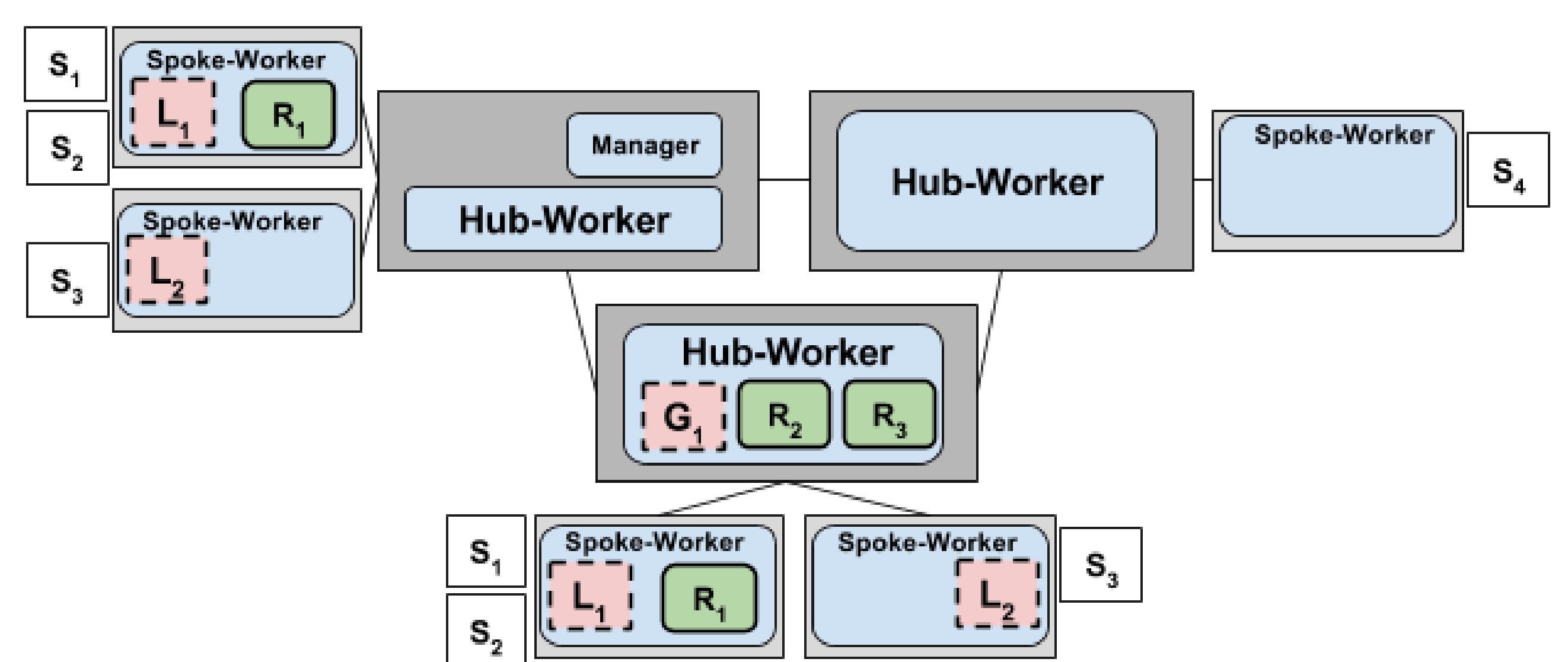
## Towards Unifying Stream Processing over Central and Near the Edge Data Centers

- Transferring data streams to a central data center for processing is **inefficient** and introduce extra latency
- Increasing amount of connected devices and **data** generated at the network **edge**
- New distributed applications with **low latency** requirements
- Edge Computing** (fog computing, cloudlets, mobile edge computing)
- Novel approach to distribute stream processing applications across **central** and near the **edge** data centers
- Define the **logic** of stream processing applications in a complex geo-distributed environment
- Geo-aware **scheduler** to optimally distribute applications
- A **prototype** implementation in Apache Storm

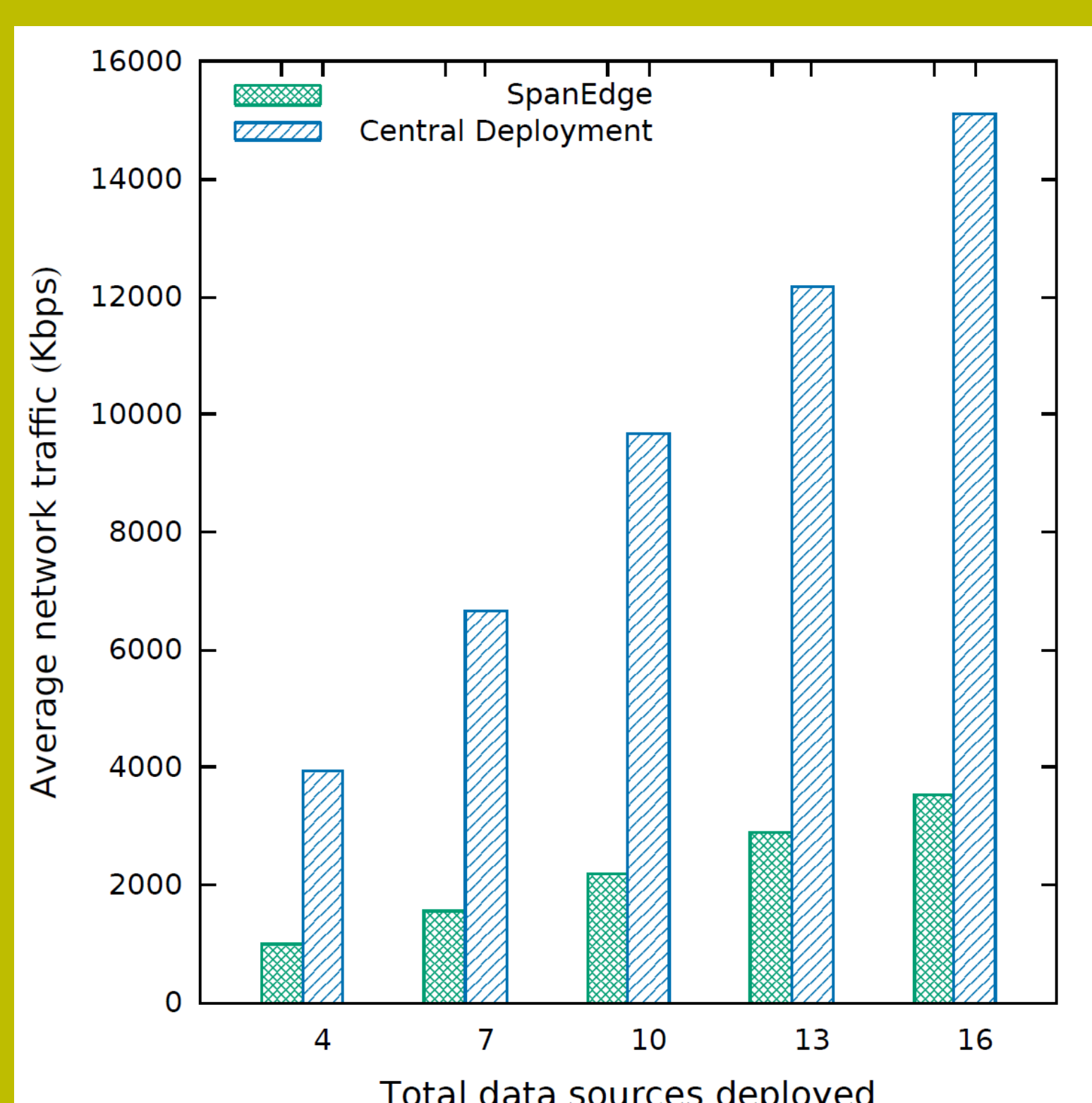
### Stream Processing Graph



### Execution Graph

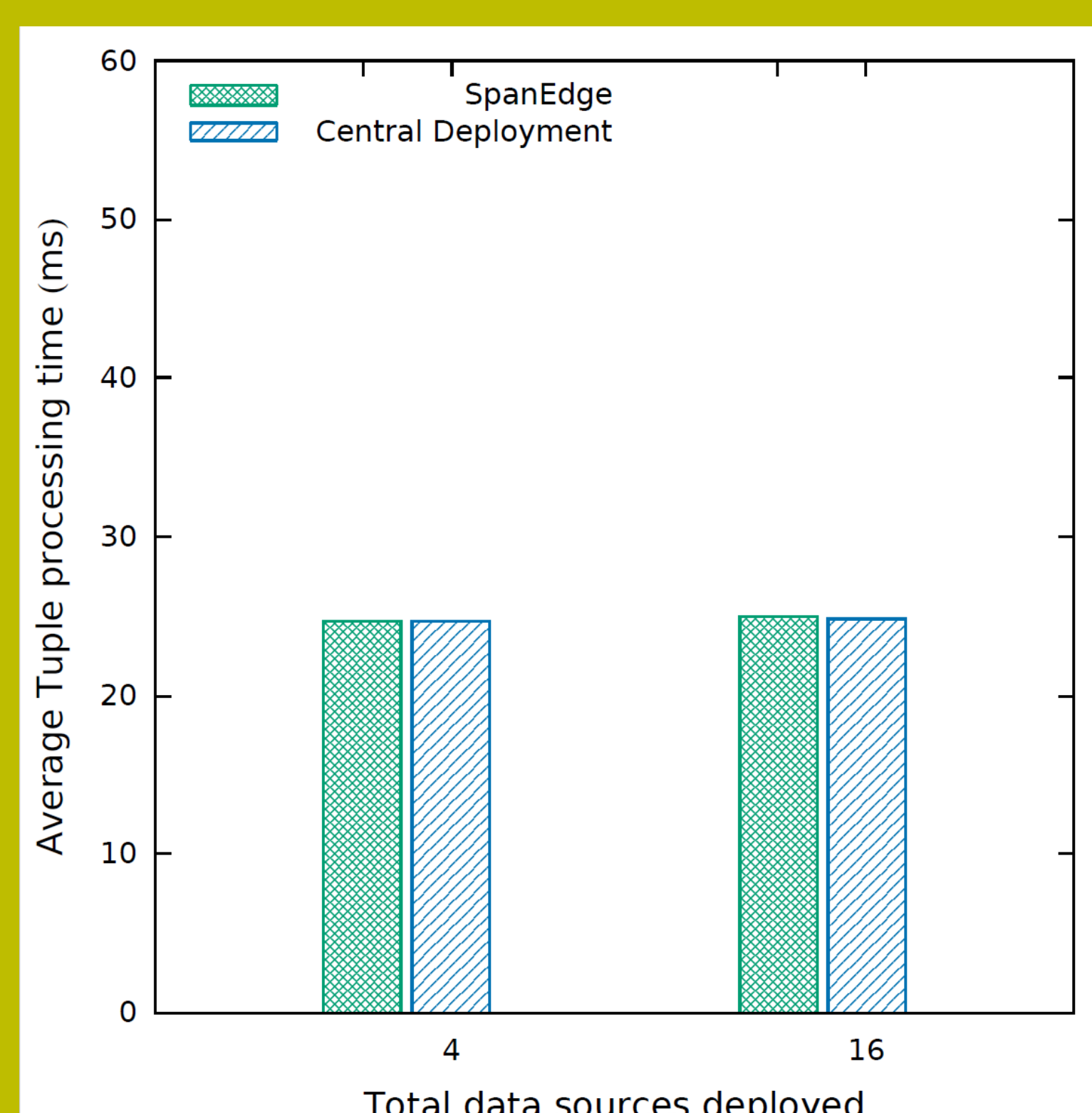


### Network Traffic



### Processing Time

#### Aggregated Result



#### Partial Results

