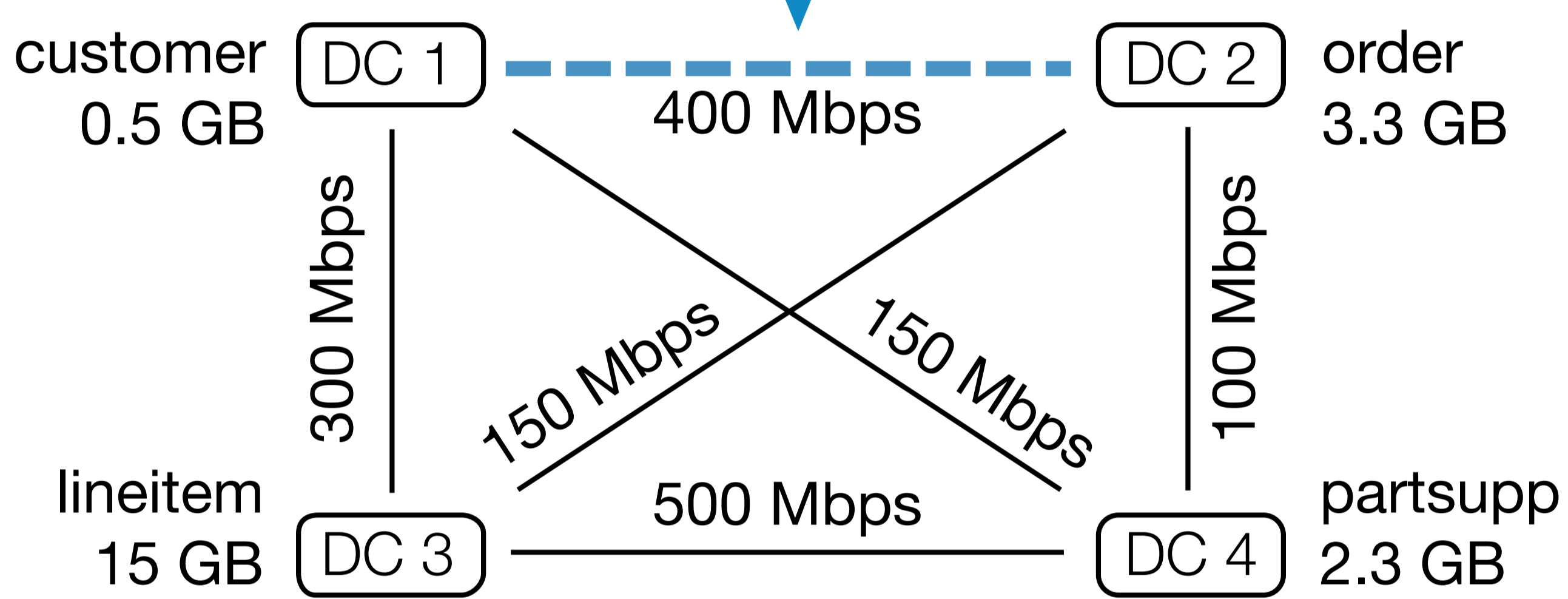
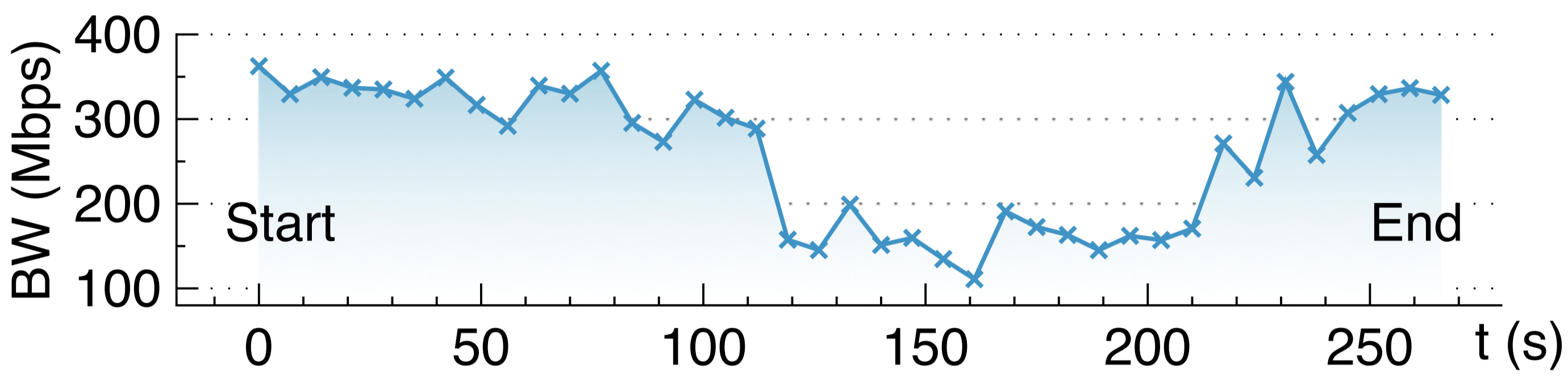
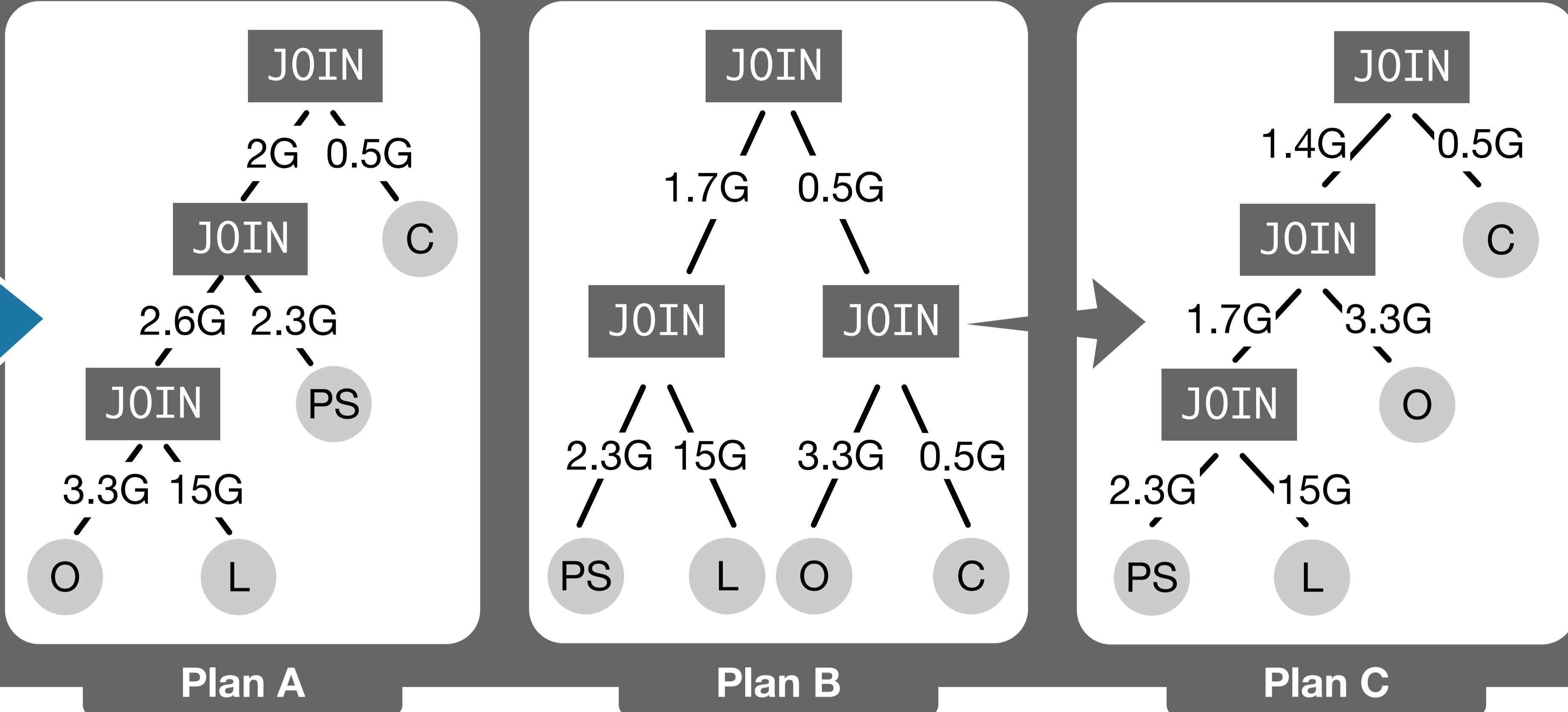




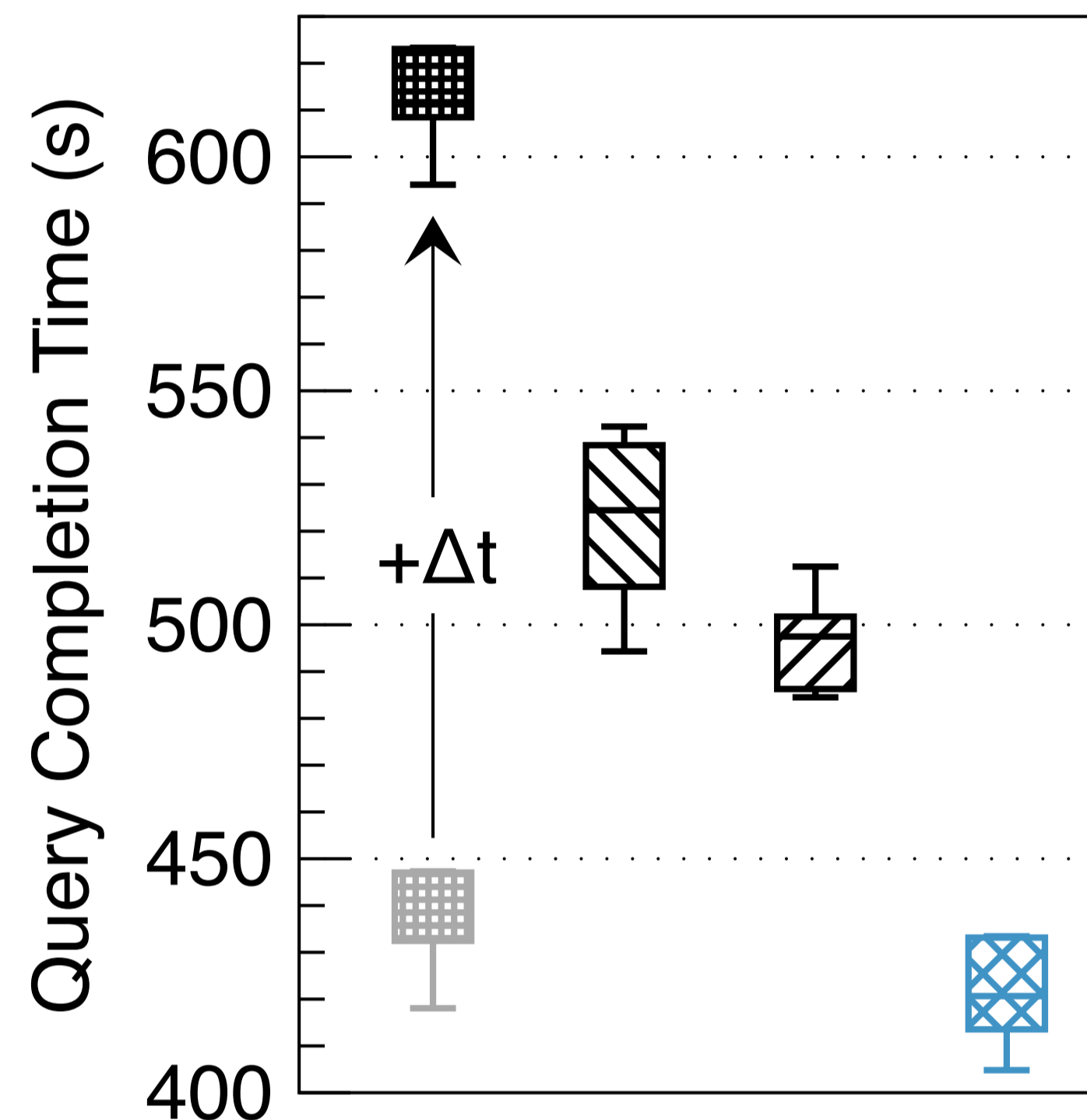
SoCC '18, October 11–13, 2018, Carlsbad, CA, USA

```

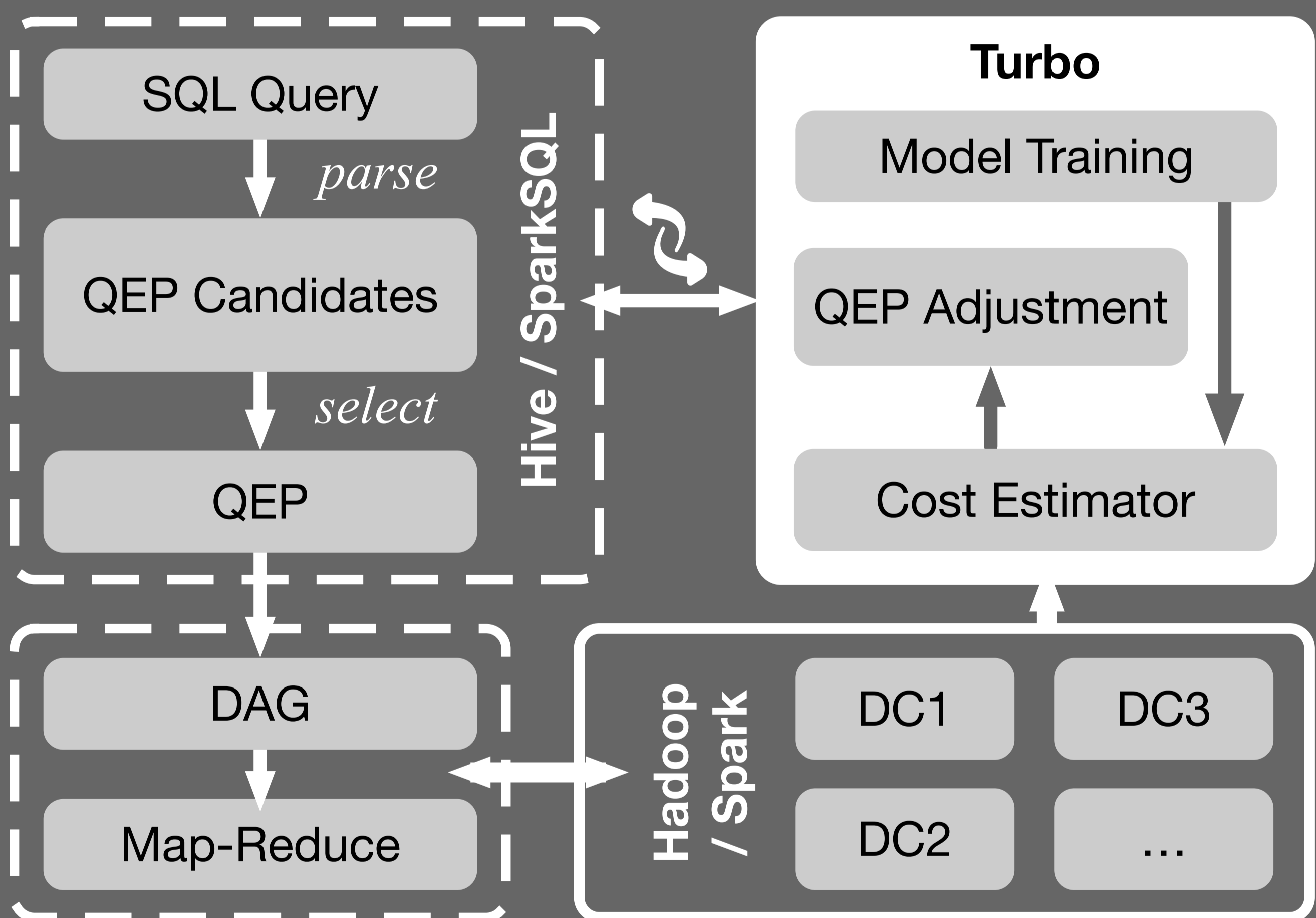
01. SELECT
02.   C.name, O.orderstatus,
03.   L.discount, PS.availqty
04. FROM
05.   customer as C,
06.   order as O,
07.   lineitem as L,
08.   partsupp as PS
09. WHERE O.orderkey == L.orderkey,
10.        AND PS.partkey == L.partkey,
11.        AND PS.supkey == L.supkey,
12.        AND C.custkey == O.custkey
  
```



Centralized Baseline
Clarinet Turbo
 Δt : the data movement time



- Plan A**
 - The worst plan
 - The baseline
- Plan B**
 - The initial optimal plan
 - Selected by Clarinet
- Plan C**
 - The adjusted plan
 - Adapt to bandwidth fluctuation



Training Data, ML Models, Feature Selection, Model Evaluation

JOIN tables → reduce maps

- Gradient Boosting Regression Tree (GBRT)
- Least Absolute Shrinkage and Selection Operator (LASSO)

