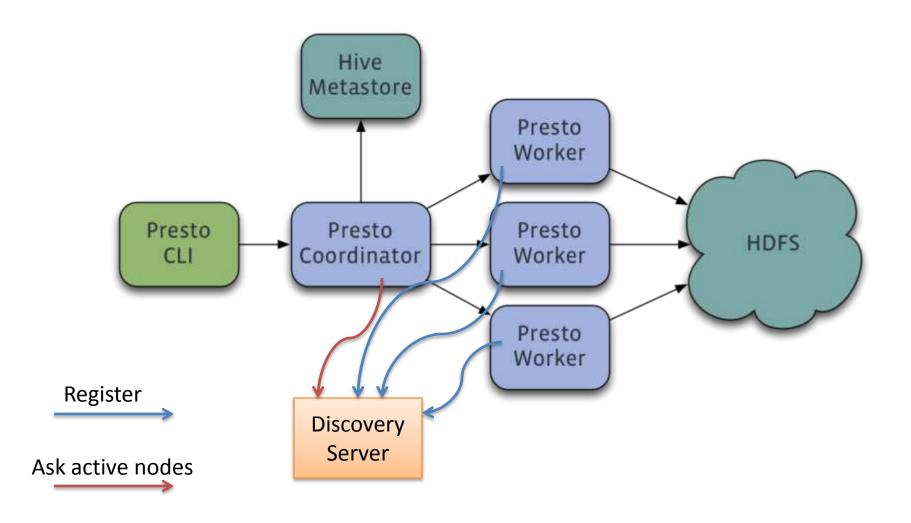
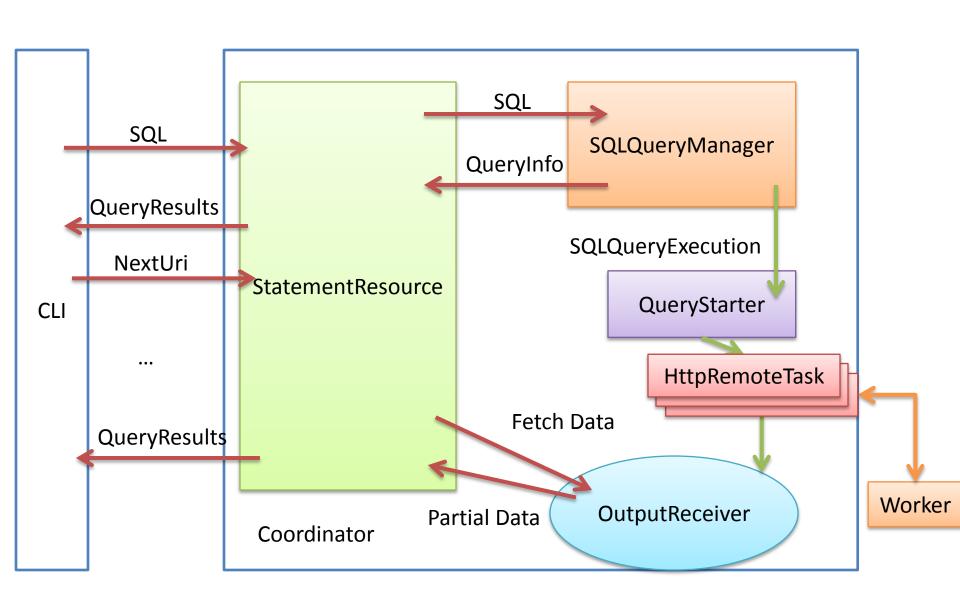
Presto Overview

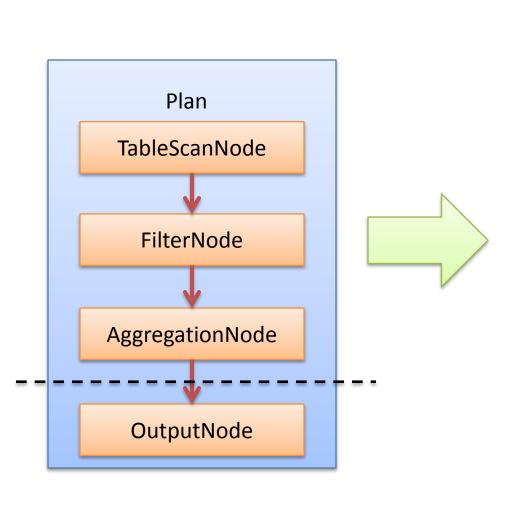
Shixiong Zhu

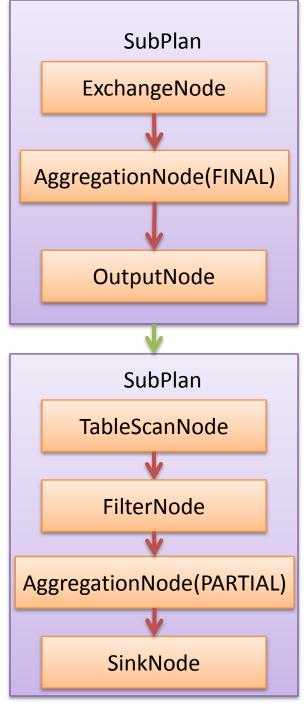
Overview



Coordinator



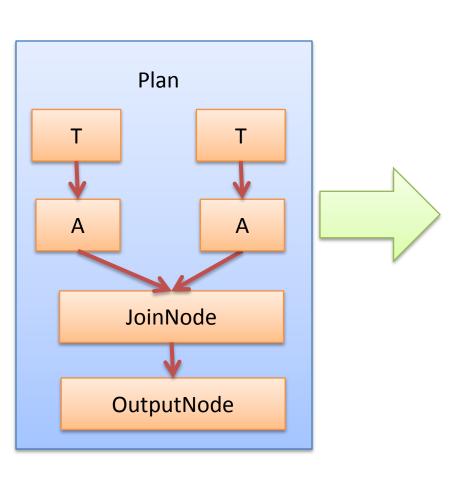


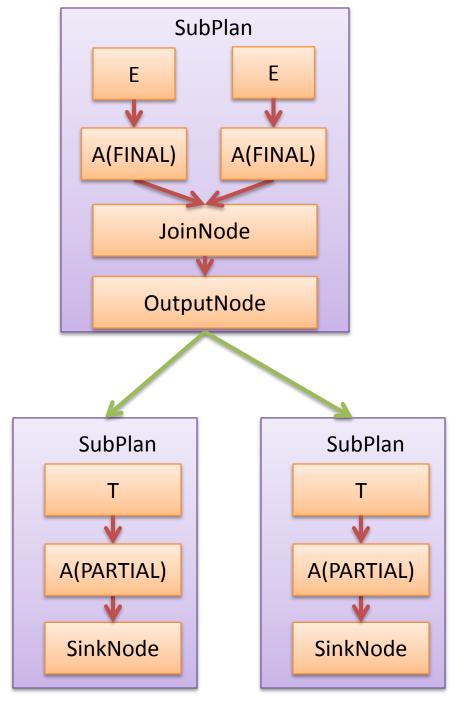


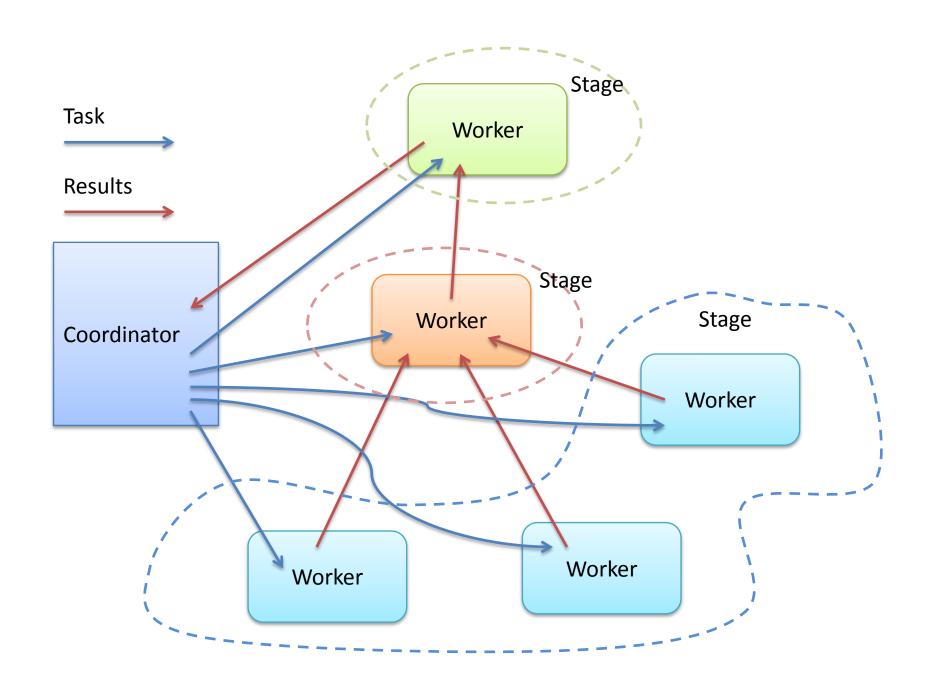
T: TableScanNode

A: AggregationNode

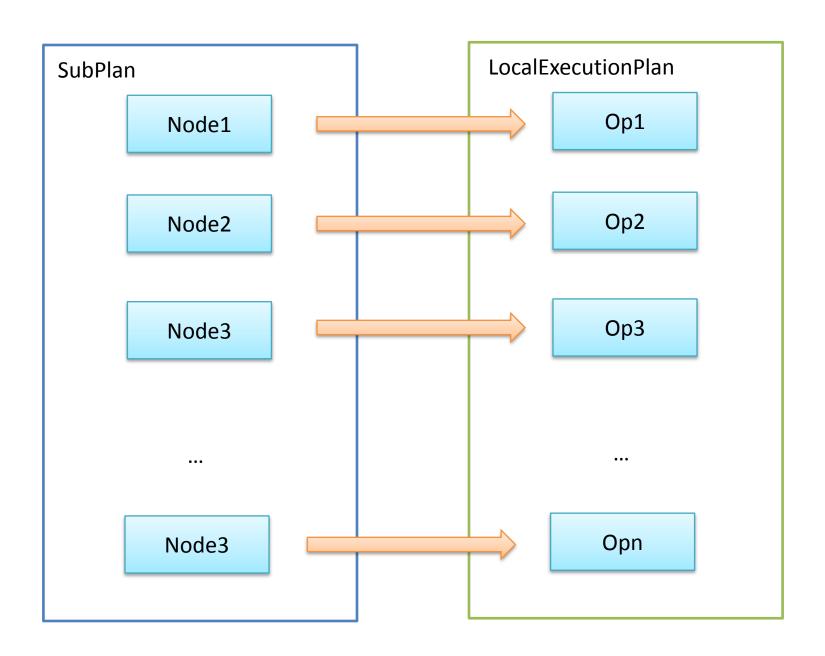
E: ExchangeNode

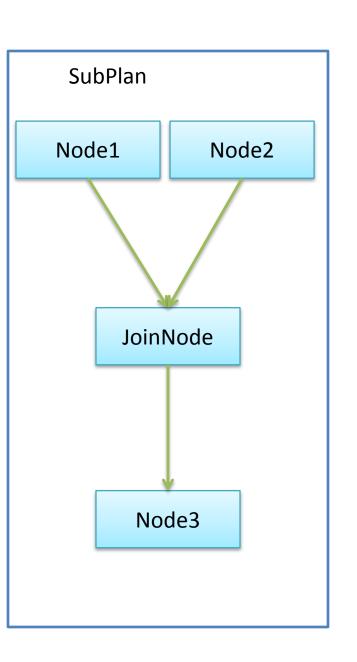


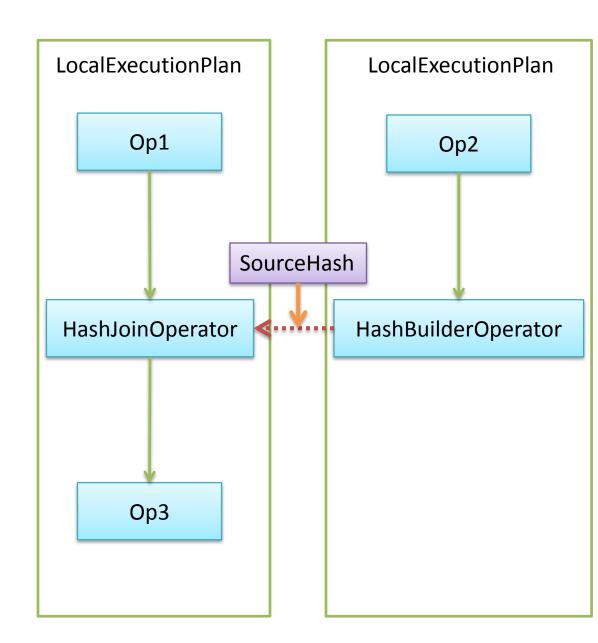




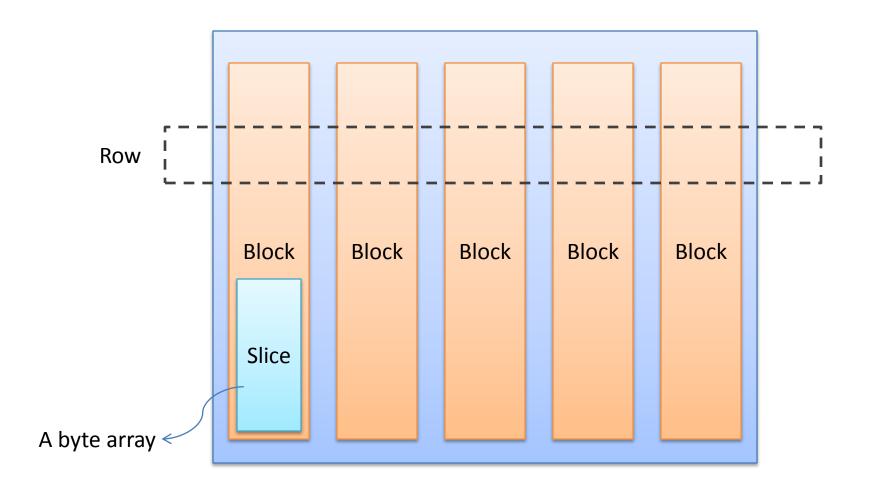
Worker

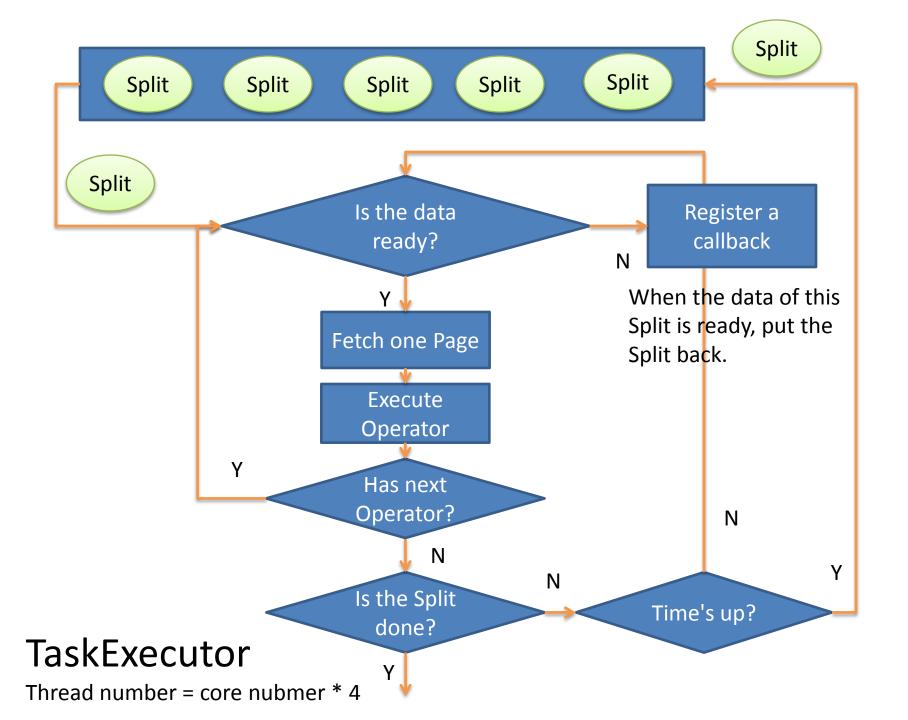




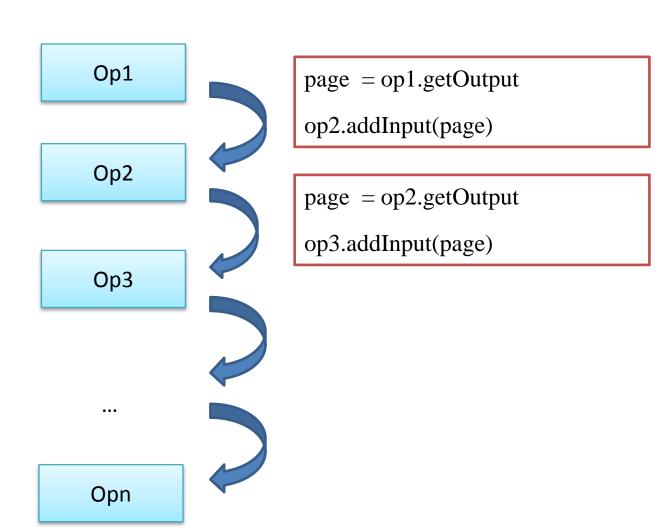


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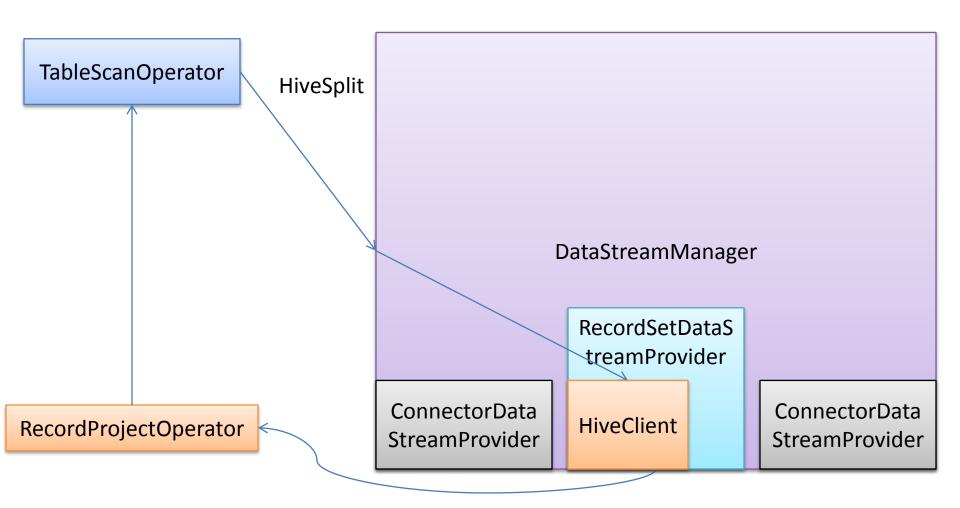




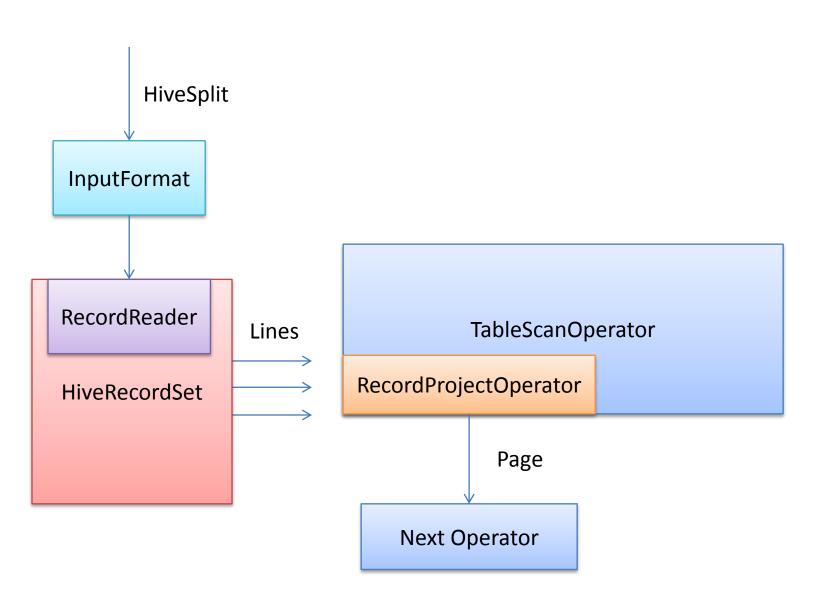
Execution Operators



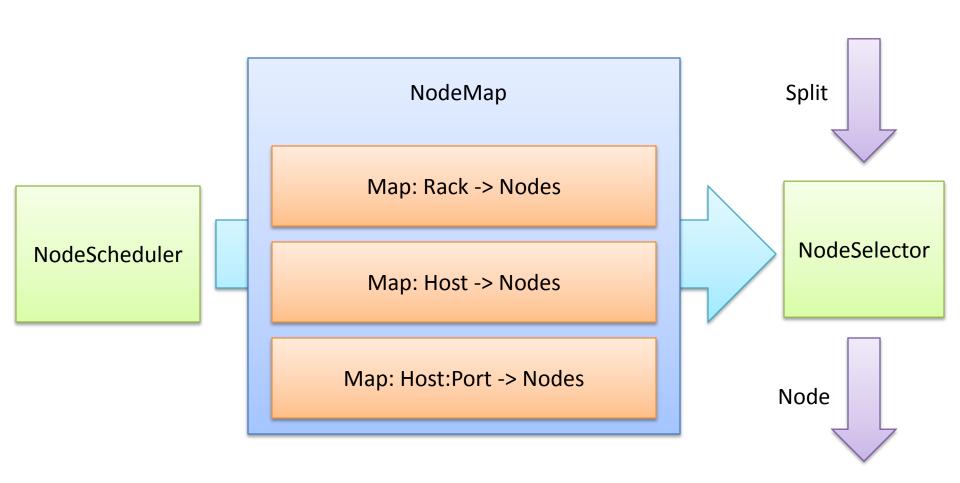
Input



HiveRecordSet



Load Balance



NodeSelector.selectNode

- Select acceptable nodes (as least 10 nodes by default)
 - Nodes has the same address
 - If not enough, add nodes in the same rack
 - If not enough, randomly select nodes in other racks
- Select the node with the smallest number of assignments (pending tasks)

Output

- Only has SELETE statement
 - Currently query results are streamed to the client

Communication

- Protocol: HTTP
- Data Format: JSON
- Every instance has one server and one client

Q&A