Stream Processing Systems

stream = database

- filter and transform events
- join event streams
- aggregate event streams
- · replication of event streams

database -> state -> updated

stream -> state modification -> appended

Micro-batching - aggregate data in batches of configurable duration

Latency:

- computation triggered after batch times out
- each batch scheduled, loaded libraries, open connections

Programming model:

- no separation of mechanism and business logic
- changing batch size = different results

Event-based streaming - process events one by one event-time system + aligned delay trigger = micro-batching



