Apache Flink Stateful Computations over Data Streams

作者：程毅钊（花名：军长）
Apache Flink Community China 出品

相关链接

vinoyang的文网站：
https://vinoyang.xyz/

Apache Flink 视频频道：
https://github.com/flink-china/flink-training-course

Flink Forward Asia 2019：
https://www.bilibili.com/video/av71000259/

Flink Forward China 2018：
https://github.com/flink-china/flink-forward-china-2018

Flink Forward San Francisco 2015-2017：
https://www.youtube.com/playlist?list=PLrmLmBdmIufsZ1ofiN_bpZL2b2PFuZfn4HA （需要翻墙）

◀ Flink 中文社区微信公众号

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扫码关注，获取更多技术干货

1.Streaming Processing Concepts (common concepts for stream processing)

注：虚线框内为快速入门知识点

- Bounded and Unbounded Data and Processing
- Latency and Throughput
- Time Semantics
  - Processing Time
  - Event Time
  - Watermarks
  - Window
  - Trigger

Streaming Processing Concepts 相关链接

Streaming 101：
https://www.oreilly.com/ideas/the-world-beyond-batch-streaming-101

Streaming 102：
https://www.oreilly.com/ideas/the-world-beyond-batch-streaming-102

2. Architecture

- Layered APIs
  - DataStream API(stream, windows)
  - Process/Function(events, state, time)
- Components of a Flink Setup
  - JobManager(also called masters)
  - TaskManager(also called workers)
  - Clients
- Task Execution
  - Operators
  - Tasks
    - Setting Parallelism
      - Operator Level
      - Execution Environment Level
      - Client Level
      - System Level(set parallelism in flink-conf.yaml)
    - Task Failure Recovery
      - Restart Strategies
      - Failover Strategies
  - Slots and Resources
- SQL/Table API(dynamic tables)

Architecture 相关链接

Flink Runtime 核心机制解析：
https://github.com/flink-china/flink-training-course#2-flink-runtime-%E3%0A%0B%E7%0B%E3%0A%C5%0B%0A%C5%0B%0A%C5%0B