

Release 0.9 Planning

Open

Streaming API and Tasks

- Sync Streaming Java/Scala API
- Consolidate names across batch/streaming (discussion)

Gelly

- FLINK-1522 Add tests for the library methods and examples
- FLINK-1943 Add Gelly-GSA compiler and translation tests

Docs

- Streaming vs. Batch startup modes
- General docs review

Fixed

Network Stack

- Merge static code analysis

Network Stack

- ~~FLINK-1954 Task Failures and Error Handling~~
 - ~~1636: Partition not found~~
 - ~~1957: Transport failures~~
 - ~~1955: Sender failures~~
- ~~FLINK-2089: "Buffer recycled" IllegalStateException during cancelling~~
- ~~FLINK-2091: Lock contention during release of network buffer pools~~

Streaming API and Tasks

- ~~FLINK-2007 DeltaPolicies do not respect Flink serializationAt least one reasonable state backend~~
- ~~FLINK-1985 Streaming does not correctly forward ExecutionConfig to runtime~~
- ~~FLINK-2009 Time Windows fail with chaining disabled:~~
<https://issues.apache.org/jira/browse/FLINK-2009>
- ~~Iteration Streaming GroupBy~~
- ~~[FLINK-2074](#) : Sliding window emits after sources stop~~
- ~~Expose checkpointable state for user functions (not just sources)~~
- ~~Connector separation into dedicated maven projects~~
- ~~FLINK-2004 Memory leak in presence of failed checkpoints in KafkaSource~~
- ~~[FLINK-2069](#) : writeAsCsv produces no output~~

Optimizer

- ~~Remove optimizer placement of temp barriers (is handled now by blocking data exchanges)~~

JobManager

- ~~FLINK-1952 Cannot run ConnectedComponents example: Could not allocate a slot on instance~~

Miscellaneous

- ~~FLINK-1848 Paths containing a Windows drive letter cannot be used in FileOutputFormats~~
- ~~FLINK-1820 Bug in DoubleParser and FloatParser — empty String is not casted to 0~~
- ~~FLINK-2006 TaskManagerTest.testRunJobWithForwardChannel:432 expected:<FINISHED> but was:<FAILED>~~

- ~~Get last JobExecutionResult from execution environment~~

FlinkML

- ~~FLINK-2047 Rename CoCoA to SVM~~
- ~~FLINK-2034 Add vision and roadmap for ML library to docs~~
- ~~FLINK-1992 Add convergence criterion to SGD optimizer~~
- ~~FLINK-2050 Add pipelining mechanism for chainable transformers and estimators~~
- ~~FLINK-1993 Replace MultipleLinearRegression's custom SGD with optimization framework's SGD~~
- FLINK-2053 Preregister ML types for Kryo serialization

Gelly

- ~~FLINK-1941 Add documentation for Gelly GSA~~
- ~~FLINK-2113 env.execute() is no longer needed after a call to print()~~

Miscellaneous

- CLI client logging

Docs

- Eager vs. lazy execution

Postponed

Iterations

- FLINK-1916 EOFException when running delta-iteration job

Batch

- queued scheduling for batch execution
 - validate that it supports more tasks than slots for a single operator
 - leg-wise scheduling for larger batch jobs

ActorSystem

- Restart TaskManager Actor system after disconnect / deatchwatch terminate message (may be required to guarantee that actor systems are not quarantined)

Network Stack

- Create a relative size buffer pool for network stack buffers

Streaming API and Tasks

- Plan Visualizer
- Checkpointing of Windowing State

Optimizer

- FLINK-1915 Faulty plan selection by optimizer

Miscellaneous

- [FLINK-2075 - Shade akka and protobuf dependencies away](#)