

SeriesSpout

BaseRichSpout

- collector :SpoutOutputCollector
- completed :boolean = false
- data :ArrayList<Double>
- dataBufferedReader :BufferedReader
- dataReader :FileReader
- ex :double
- ex2 :double
- newValueIndex :int
- pending :ConcurrentHashMap<UUID, Values>
- readIndex :int
- REMOVEINDEX :int = 0 (readOnly)
- seriesLoc :int
- size :int
- TRACING :boolean = true (readOnly)

+ ack(Object) :void

+ declareOutputFields(OutputFieldsDeclarer) :void

+ fail(Object) :void

+ next(Tuple) :void

+ open(Map, TopologyContext, SpoutOutputCollector) :void

+ trace(String) :void

PreBolt

RichBolt

- collector :OutputCollector
- size :int
- tools :Tools
- TRACING :boolean = false (readOnly)
- warp :int

+ cleanup() :void

+ declareOutputFields(OutputFieldsDeclarer) :void

+ execute(Tuple) :void

+ getComponentConfiguration() :Map<String, Object>

+ prepare(Map, TopologyContext, OutputCollector) :void

+ trace(String) :void

Tools

+ dist(double, double) :double

+ lower\_upper\_lemire(double[], double[], double[], int, int) :void

+ max(int, int) :int

+ max(double, double) :double

+ min(int, int) :int

+ min(double, double) :double

KimBolt

RichBolt

- bf1 :double
- collector :OutputCollector
- INF :double = 1e20 (readOnly)
- query :double []
- size :int
- tools :Tools
- TRACING :boolean = false (readOnly)

+ cleanup() :void

+ declareOutputFields(OutputFieldsDeclarer) :void

+ execute(Tuple) :void

+ getComponentConfiguration() :Map<String, Object>

+ lb\_kim\_hierarchy(String, double, double) :double

+ prepare(Map, TopologyContext, OutputCollector) :void

+ trace(String) :void

Keogh1Bolt

RichBolt

- bf1 :double
- collector :OutputCollector
- INF :double = 1e20 (readOnly)
- lo :double []
- order :int []
- size :int
- tools :Tools
- TRACING :boolean = false (readOnly)
- uo :double []

+ cleanup() :void

+ declareOutputFields(OutputFieldsDeclarer) :void

+ execute(Tuple) :void

+ getComponentConfiguration() :Map<String, Object>

+ lb\_Keogh1\_cumulative(String, double[], double) :double

+ prepare(Map, TopologyContext, OutputCollector) :void

+ trace(String) :void

Keogh2Bolt

RichBolt

- bf1 :double
- collector :OutputCollector
- INF :double = 1e20 (readOnly)
- order :int []
- qo :double []
- size :int
- tools :Tools
- TRACING :boolean = false (readOnly)

+ cleanup() :void

+ declareOutputFields(OutputFieldsDeclarer) :void

+ execute(Tuple) :void

+ getComponentConfiguration() :Map<String, Object>

+ lb\_Keogh2\_cumulative(String, String, double[], double, double) :double

+ prepare(Map, TopologyContext, OutputCollector) :void

+ trace(String) :void

DTWBolt

RichBolt

- bf1 :double
- collector :OutputCollector
- INF :double = 1e20 (readOnly)
- query :double []
- size :int
- tools :Tools
- TRACING :boolean = false (readOnly)
- warp :int

+ cleanup() :void

+ declareOutputFields(OutputFieldsDeclarer) :void

+ dtw(String, String, double, double, double) :double

+ execute(Tuple) :void

+ getComponentConfiguration() :Map<String, Object>

+ prepare(Map, TopologyContext, OutputCollector) :void

+ trace(String) :void

SeriesSearchTopology

- DTW\_BOLT\_ID :String = "dtw-bolt" (readOnly)
- KEOGH1\_BOLT\_ID :String = "Keogh1-bolt" (readOnly)
- KEOGH2\_BOLT\_ID :String = "Keogh2-bolt" (readOnly)
- KIM\_BOLT\_ID :String = "Kim-bolt" (readOnly)
- PRE\_BOLT\_ID :String = "pre-bolt" (readOnly)
- REPORT\_BOLT\_ID :String = "report-bolt" (readOnly)
- SPOUT\_ID :String = "spout" (readOnly)

+ main(String[]) :void

+ processQueryConfig(String, int, int) :void

Comparable

Index

- index :int
- value :double

+ compareTo(Index) :int

+ getIndex() :int

+ getValue() :double

+ Index() :void

+ Index(double, int)

+ setIndex(int) :void

+ setValue(double) :void

ReportBolt

RichBolt

- bf1 :double
- collector :OutputCollector
- fileWriter :FileWriter
- location :int
- TRACING :boolean = false (readOnly)

+ cleanup() :void

+ declareOutputFields(OutputFieldsDeclarer) :void

+ execute(Tuple) :void

+ getComponentConfiguration() :Map<String, Object>

+ prepare(Map, TopologyContext, OutputCollector) :void

+ trace(String) :void