Kafka test setup (kafkaDelay3Full)

Technology: Kafka Streams

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Number of tests performed: 5

Start: Timestamp from Producer End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 0.08460000000000001

Kafka standard deviation

End Subtract Start: 0.22473290013803743

Lower Bound: -0.5498806410533817 UpperBound: 0.7985167597748429

Number of data in the std range: 8545

Number of data outside the std range: 215

Kafka interquartile range

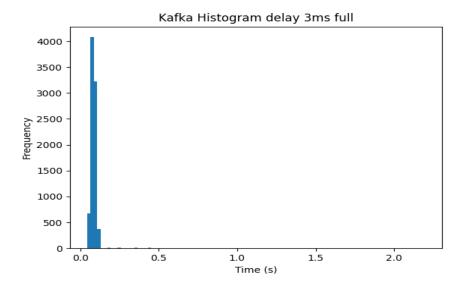
End Subtract Start: 0.0204

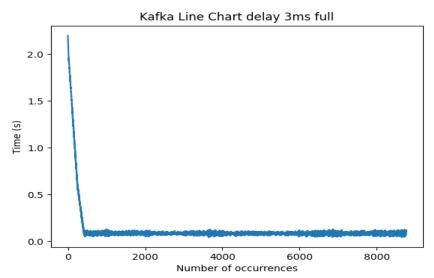
Kafka mean

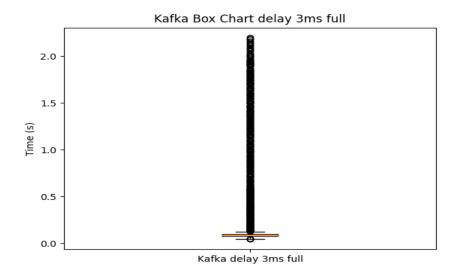
End Subtract Start: 0.12431805936073057

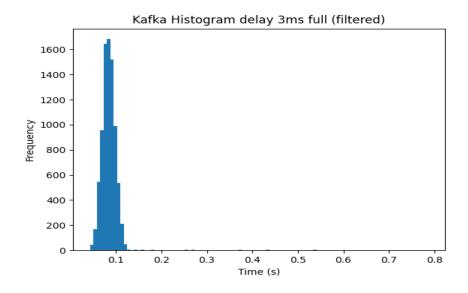
Average time for each sample

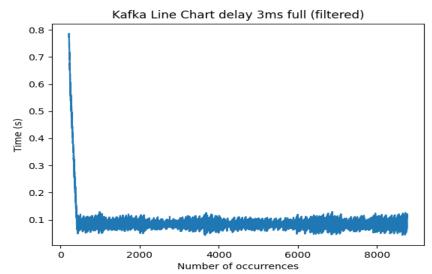
 $0.08846518264840185 \quad 0.08297694063926941 \quad 0.0831502283105023$

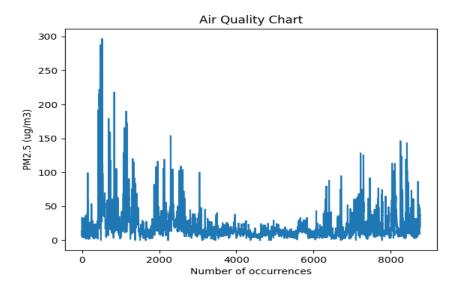












Kafka test setup (kafkaDelay0Full)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 5

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 2.3583

Kafka standard deviation

End Subtract Start: 0.7615624821081167

Lower Bound: 0.03898762216880014

Upper Bound: 4.6083625148175

Number of data in the std range: 8760

Number of data outside the std range: 0

Kafka interquartile range

End Subtract Start: 1.398

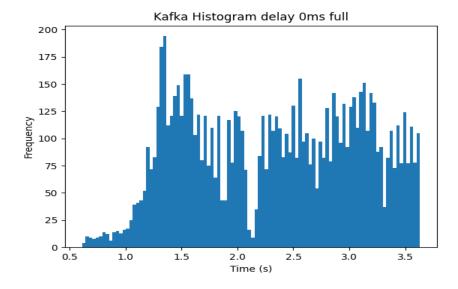
Kafka mean

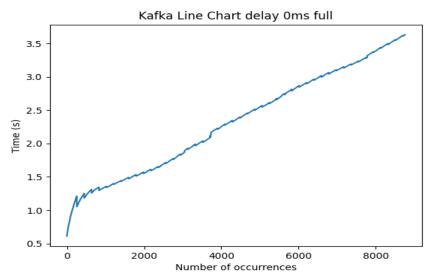
End Subtract Start: 2.3236750684931504

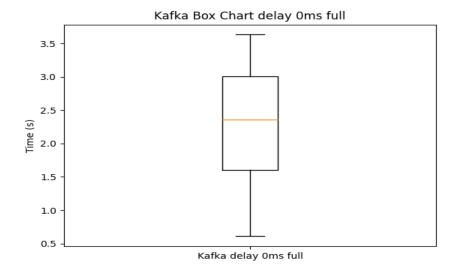
Average time for each sample

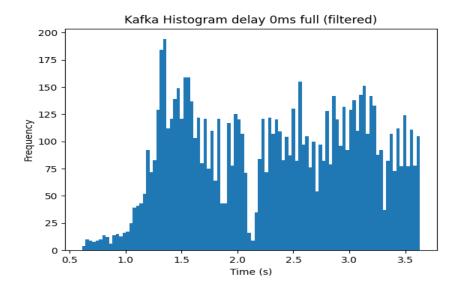
2.5296270547945205 1.9596102739726025 2.0990082191780823

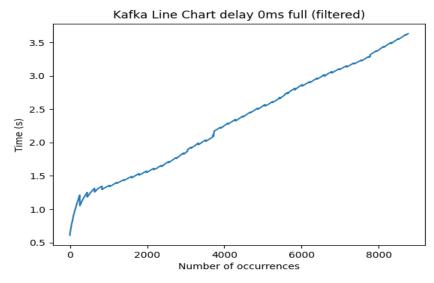
3.2746164383561642 1.7555133561643836

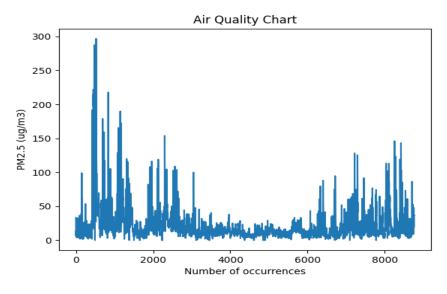












Kafka test setup (kafkaDelay0Half)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Number of tests performed: 5

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 5.342499999999999

Kafka standard deviation

End Subtract Start: 0.4631643357872056

Lower Bound: 4.093240371633817

Upper Bound: 6.872226386357051

Number of data in the std range: 4380

Number of data outside the std range: 0

Kafka interquartile range

End Subtract Start: 0.799399999999994

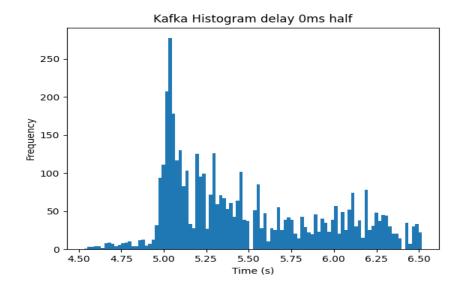
Kafka mean

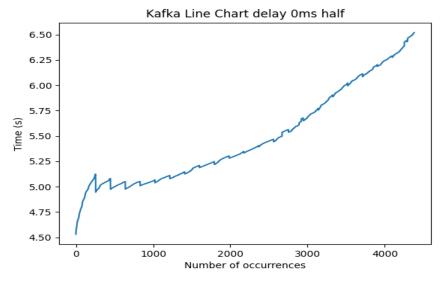
End Subtract Start: 5.482733378995434

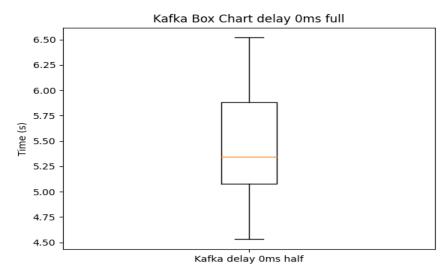
Average time for each sample

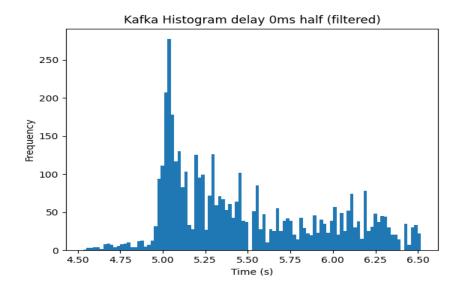
2.8113625570776257 1.148457077625571 1.1442707762557078

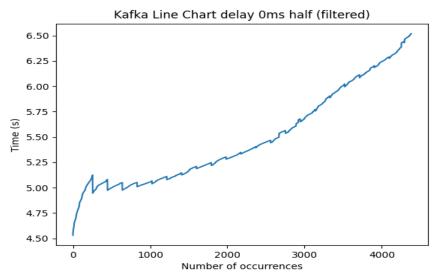
15.065976940639267 7.243599543378996

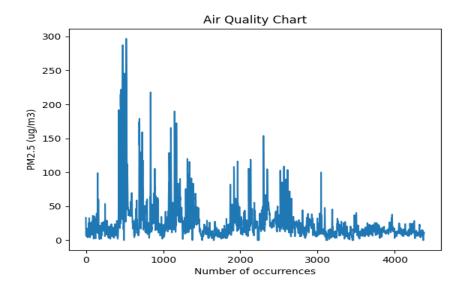












Spark test setup (sparkDelay3Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Number of tests performed: 5 Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

Spark standard deviation

End Subtract Start: 0.2711297165533159 Lower Bound: 0.061306809244161875

Upper Bound: 1.6880851085640574 Number of data in the std range: 8620

Number of data outside the std range: 140

Spark interquartile range

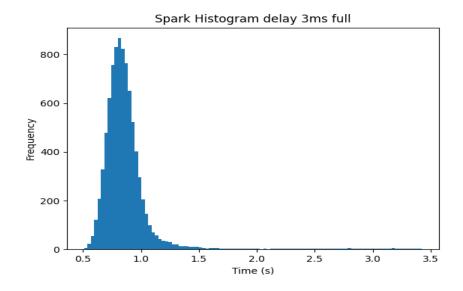
End Subtract Start: 0.162999999999998

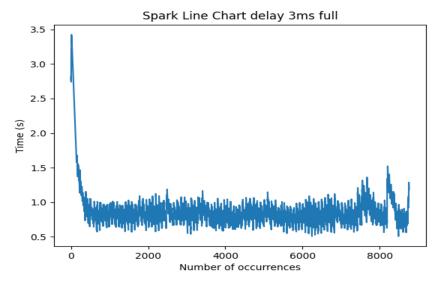
Spark mean

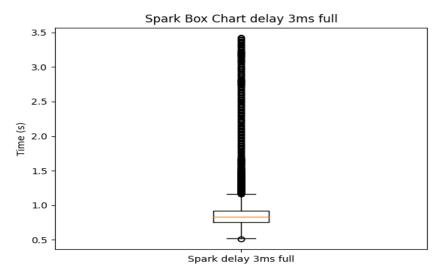
End Subtract Start: 0.8746959589041096

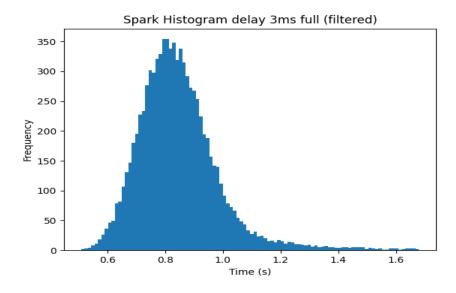
Average time for each sample

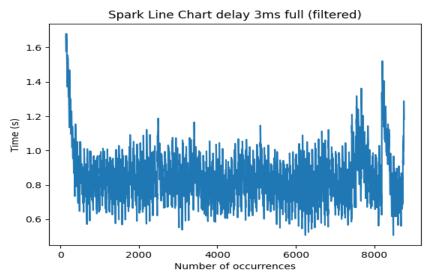
1.555434589041096 0.7010439497716896 0.7204858447488585

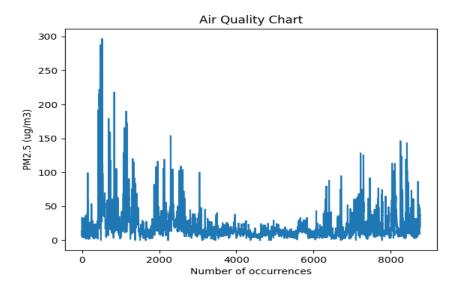












Spark test setup (sparkDelay0Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 5

Start: Timestamp from Producer End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

End Subtract Start: 5.9833

Spark standard deviation

End Subtract Start: 0.8714526953812832

Lower Bound: 3.3426388316643703 Upper Bound: 8.57135500395207

Number of data in the std range: 8760 Number of data outside the std range: 0

Spark interquartile range

End Subtract Start: 1.5070999999999994

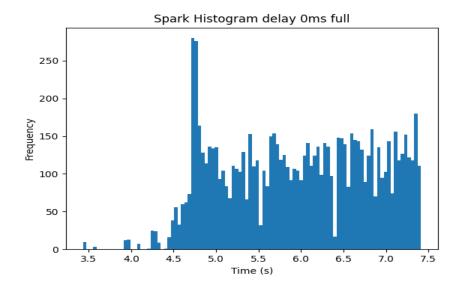
Spark mean

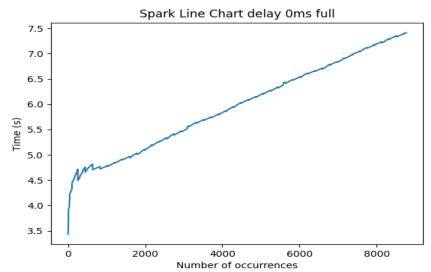
End Subtract Start: 5.95699691780822

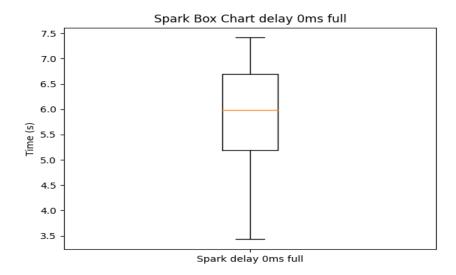
Average time for each sample

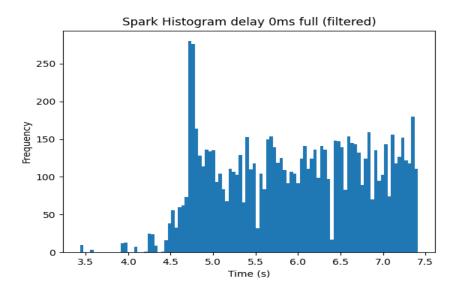
10.360887557077625 4.505659589041097 4.92744189497717

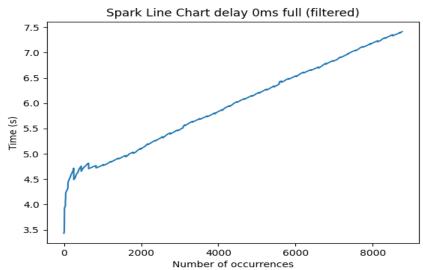
5.237693721461187 4.7533018264840186

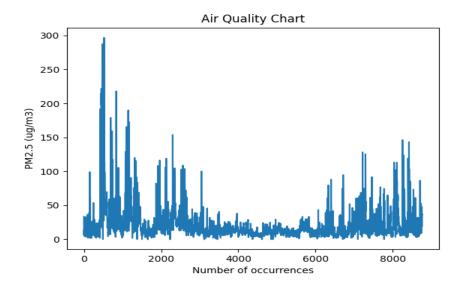












Spark test setup (sparkDelay0Half)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Number of tests performed: 5 Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

End Subtract Start: 4.8353

Spark standard deviation

End Subtract Start: 0.5512861461493102

Lower Bound: 3.243264072967595 Upper Bound: 6.550980949863456 Number of data in the std range: 4371

Number of data outside the std range: 9

Spark interquartile range

End Subtract Start: 0.97445

Spark mean

End Subtract Start: 4.8971225114155255

Average time for each sample

8.790803196347033 3.7517568493150684 4.1874315068493155

3.809788812785388 3.9458321917808226

