Kafka test setup (kafkaDelay3Full)

Technology: Kafka Streams

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Number of tests performed: 20 Start: Timestamp from Producer End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 0.08380000000000001

Kafka standard deviation

End Subtract Start: 0.24411373493556607

Lower Bound: -0.5934359707884334 UpperBound: 0.871246438824963

Number of data in the std range: 8504

Number of data outside the std range: 256

Kafka interquartile range

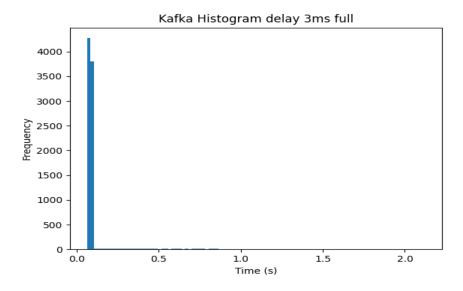
End Subtract Start: 0.00919999999999986

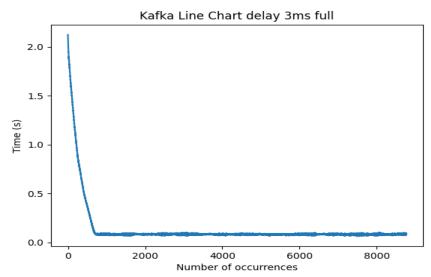
Kafka mean

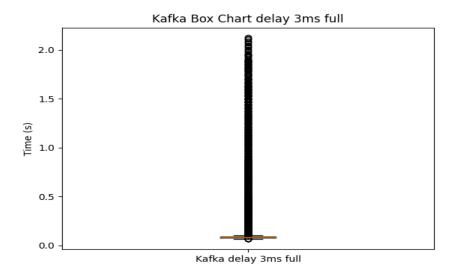
End Subtract Start: 0.13890523401826485

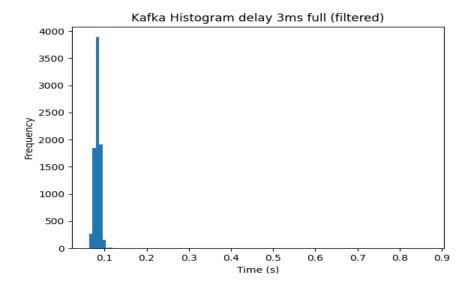
Average time for each sample

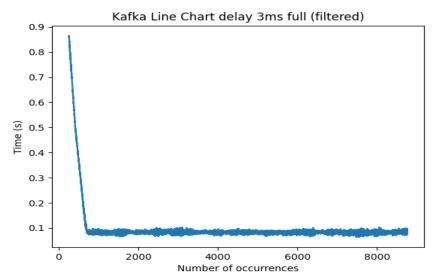
0.0829785388127854 0.08681712328767123

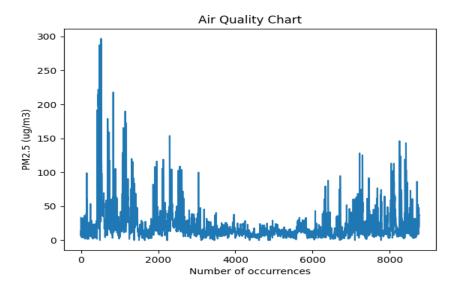












Kafka test setup (kafkaDelay0Full)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 20 Start: Timestamp from Producer End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 3.9907749999999993

Kafka standard deviation

End Subtract Start: 0.6465114863052835

Lower Bound: 2.036467675787346
Upper Bound: 5.915536593619048
Number of data in the std range: 8760
Number of data outside the std range: 0

Kafka interquartile range

End Subtract Start: 1.1192250000000001

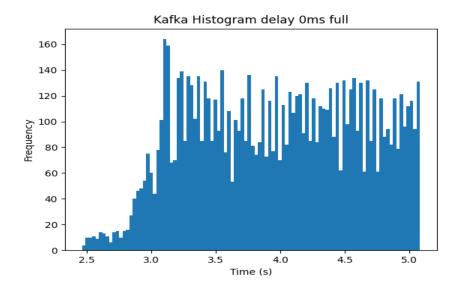
Kafka mean

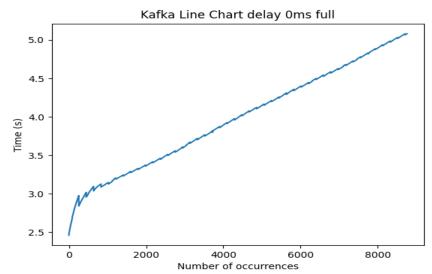
End Subtract Start: 3.976002134703197

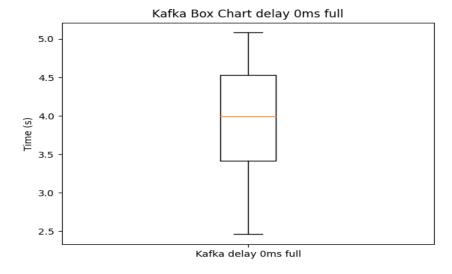
Average time for each sample

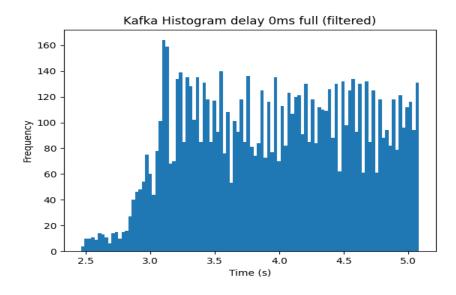
2.52962705479452051.95961027397260252.09900821917808233.27461643835616421.75551335616438362.6460831050228313.3706703196347032.107179223744292310.5741567351598187.1550853881278531.82475707762557061.86167009132420086.497957534246574510.5427886986301371.7003283105022831.9845517123287671.9468541095890419.87105102739726

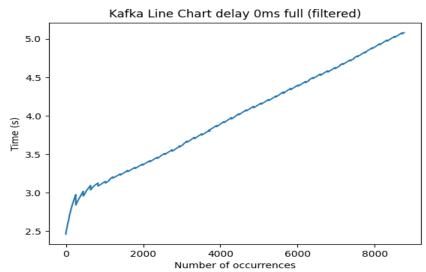
4.1422457762557086 1.6762882420091325

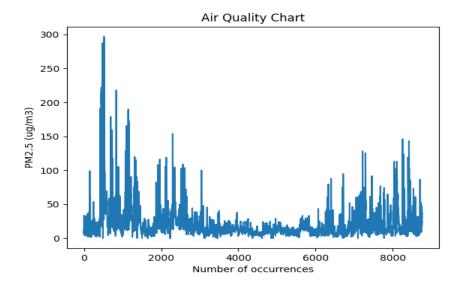












Kafka test setup (kafkaDelay0Half)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Number of tests performed: 20 Start: Timestamp from Producer End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 6.3923749999999995

Kafka standard deviation

End Subtract Start: 0.3290838842288253

Lower Bound: 5.459677867861469 Upper Bound: 7.434181173234421

Number of data in the std range: 4380 Number of data outside the std range: 0

Kafka interquartile range

End Subtract Start: 0.5982624999999988

Kafka mean

End Subtract Start: 6.446929520547945

Average time for each sample

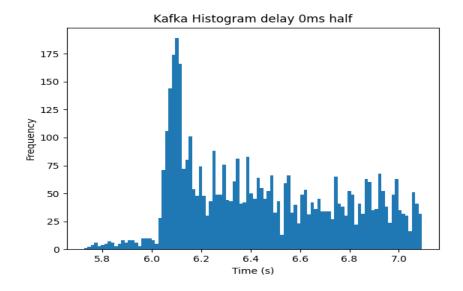
2.8113625570776257 1.148457077625571 1.1442707762557078

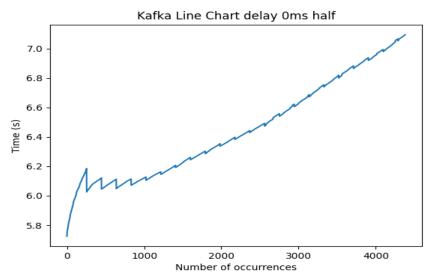
15.065976940639267 7.243599543378996 1.085281506849315

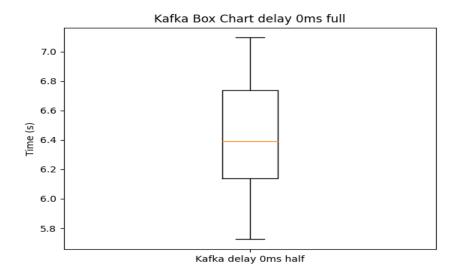
14.042808447488586 8.304279908675799 11.918637214611872

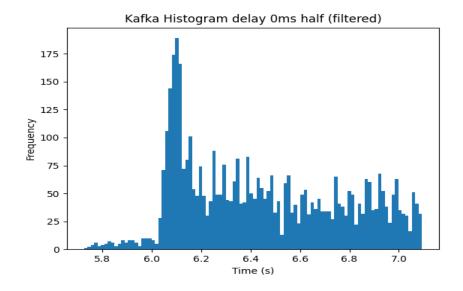
1.0520659817351599 12.747889726027397 8.97447899543379

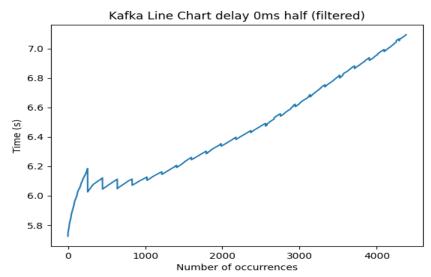
1.284948401826484 20.16403333333333

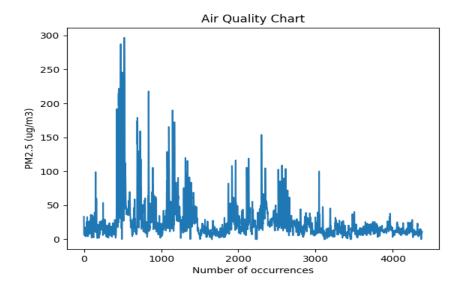












Spark test setup (sparkDelay3Full)

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

Full data set (qty): 8760

Number of tests performed: 20 Start: Timestamp from Producer End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

End Subtract Start: 0.7257

Spark standard deviation

End Subtract Start: 0.27339852932738384

Lower Bound: -0.050831329991283924

Upper Bound: 1.5895598459730191

Number of data in the std range: 8605

Number of data outside the std range: 155

Spark interquartile range

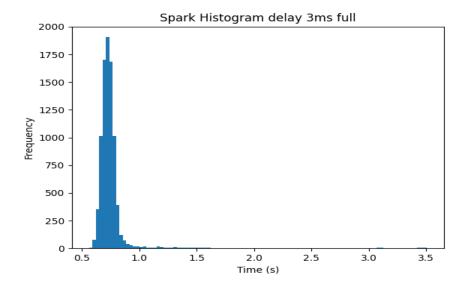
End Subtract Start: 0.07066249999999996

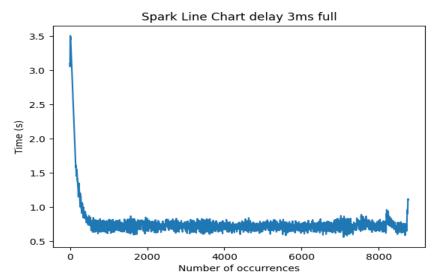
Spark mean

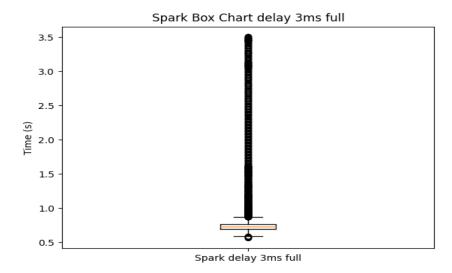
End Subtract Start: 0.7693642579908676

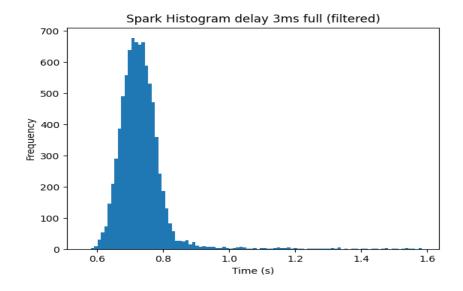
Average time for each sample

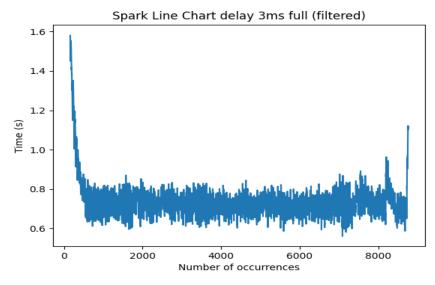
1.5554345890410960.70104394977168960.72048584474885850.70874668949771690.68776872146118730.72209657534246560.72235924657534250.75227751141552510.95873253424657520.72631803652968040.68099577625570770.70759052511415520.71411461187214610.69675856164383560.71245296803652970.80085582191780810.71082876712328770.7167045662100456

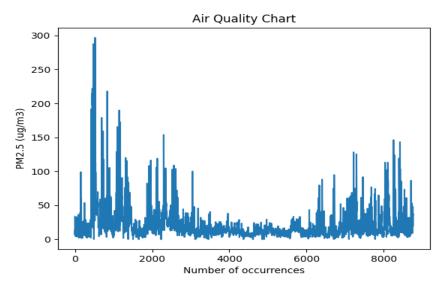












Spark test setup (sparkDelay0Full)

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

Full data set (qty): 8760

Number of tests performed: 20 Start: Timestamp from Producer End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

End Subtract Start: 5.3306249999999995

Spark standard deviation

End Subtract Start: 0.7869281275634733

Lower Bound: 2.926091216624649 Upper Bound: 7.647659982005489 Number of data in the std range: 8760

Number of data outside the std range: 0

Spark interquartile range

End Subtract Start: 1.3726624999999997

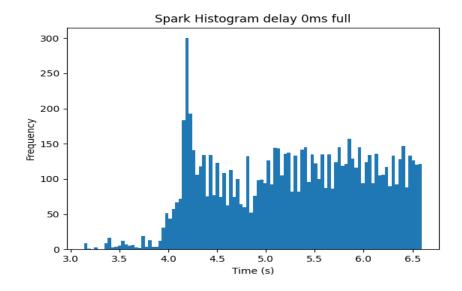
Spark mean

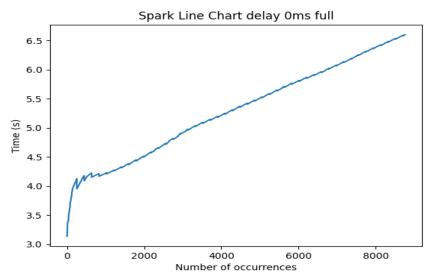
End Subtract Start: 5.286875599315069

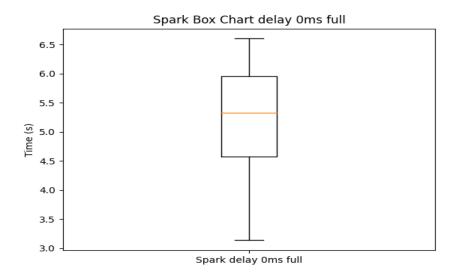
Average time for each sample

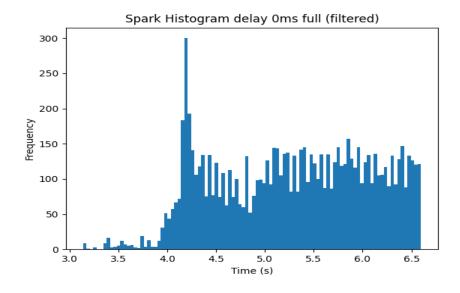
10.3608875570776254.5056595890410974.927441894977175.2376937214611874.75330182648401865.1673744292237454.4517663242009134.4439078767123284.85546952054794555.4020255707762564.8912142694063924.9729468036529684.62649566210045654.1866494292237454.7778954337899544.7580087899543384.663631050228314.812360730593607

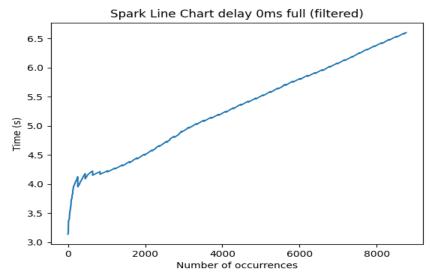
4.716850570776255 9.225930936073059

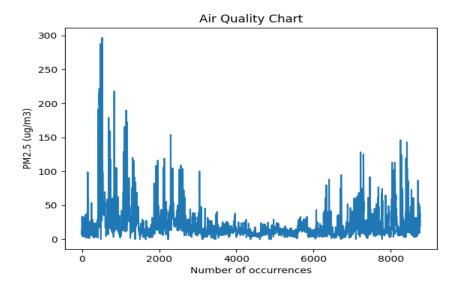












Spark test setup (sparkDelay0Half)

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

Full data set (qty): 4380

Number of tests performed: 20 Start: Timestamp from Producer End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

End Subtract Start: 4.729724999999999

Spark standard deviation

End Subtract Start: 0.41458985732253595

Lower Bound: 3.5089364554296525
Upper Bound: 5.996475599364868
Number of data in the std range: 4375
Number of data outside the std range: 5

Spark interquartile range

End Subtract Start: 0.7424124999999986

Spark mean

End Subtract Start: 4.75270602739726

Average time for each sample

8.790803196347033 3.7517568493150684 4.1874315068493155 3.809788812785388 3.9458321917808226 3.665502739726028 3.558179452054795 3.8772066210045666 4.1042659817351606 5.860282876712329 3.8050755707762556 4.140412785388128 3.864870547945206 4.2244534246575345 14.05036689497717 3.5781853881278542 3.82943493150685 3.9212159817351595 4.205908447488585 3.8831463470319627

