

MapReduce Vs. Apache Spark

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MapReduce

A programming model or pattern within the Hadoop framework that is used to access big data stored in the Hadoop File System (HDFS). It is a core component, integral to the functioning of the Hadoop framework.



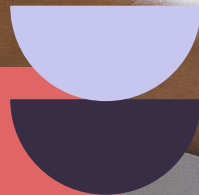
Apache Spark

Apache Spark is an open-source, distributed processing system used for big data workloads. It utilizes in-memory caching, and optimized query execution for fast analytic queries against data of any size.





Demonstration

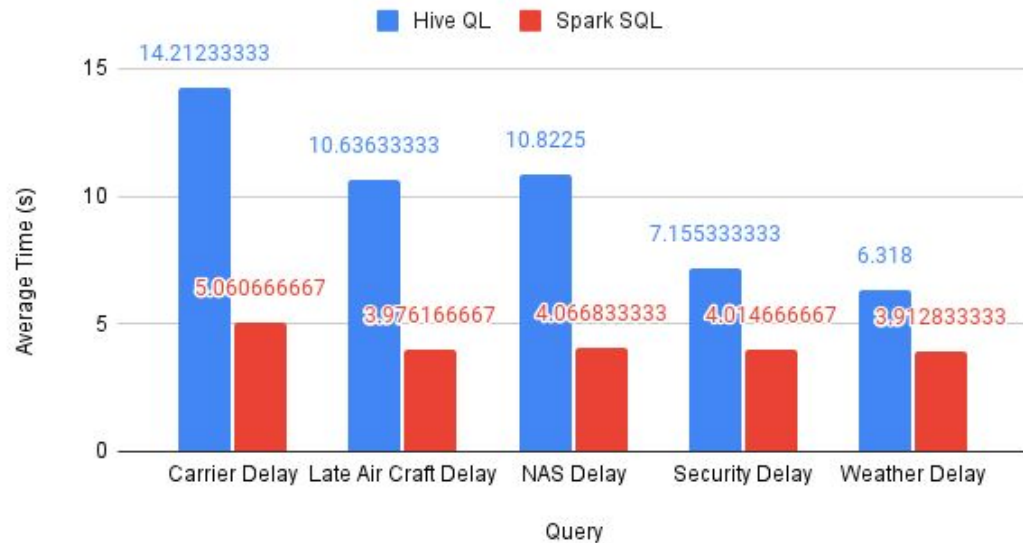


MapReduce Vs. Spark

Fast process

Apache Spark

Average Time Taken By



Ease of Use

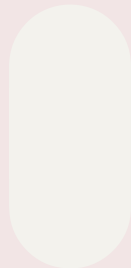


Apache Spark

Easy to use and support
interactive mode

MapReduce

Difficult to use with no
interactive mode



Performance



Apache Spark

Runs 100 times faster
in-memory and 10 times
faster on disk than
Hadoop

MapReduce

Faster than traditional
system



Data Processing



Apache Spark

Can handle all data processing requirements (batch, real time, graph etc.)

MapReduce

Is ideal for batch processing



Conclusion

- Apache Spark is very much popular for its speed
- Apache Spark is easier to use than MapReduce
- Even from performance wise, Apache Spark takes the lead



Thanks!

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