

Research on solutions to resolve data input/output contention in the Apache Hadoop system

Chengliva Lypor

Abstract: Data contention is a significant challenge for distributed storage systems such as Apache Hadoop. In the current context, this topic focuses on researching effective solutions to overcome this issue. The objective of the study is to develop and test approaches aimed at improving the stability and performance of the system when processing data transactions. The approach combines both theoretical analysis and experimentation, based on the Hadoop platform. Practical testing shows that the topic has been able to make a significant contribution to enhancing data management capabilities in a distributed environment.

Keywords: Apache Hadoop, Data Conflict, Technical Solutions, Data Management, Applied Research