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A performance study of WebDav access to storages within the Belle II collaboration.

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The use of Webdav protocol to access at large storage areas is becoming popular in the High Energy Physics community. All the main Grid and Cloud storage solutions provide such kind of interface, in this scenario, tuning the storage systems and performance evaluation became crucial aspects to promote the adoption of these protocols within the Belle II community.
In this work, we present the results of a large-scale test activity, made with the goal to evaluate performances and reliability of the WebDAV protocol, and study a possible adoption for the user analysis, in integration or in alternative of the most used protocols.
More specifically, we considered a pilot infrastructure composed by a set of storage elements configured with the webdav interface, hosted at the Belle II sites. The performance tests include also a comparison with xrootd, popular in the HEP community.
As reference tests, we used a set of analysis jobs running in the Belle II software framework, accessing the input data with the ROOT I/O library, in order to simulate as much as possible a realistic user activity.
The final analysis shows the possibility to achieve promising performances with webdav on different storage systems, and gives an interesting feedback, for Belle II community and for other high energy physics experiments.

Tertiary Keyword (Optional)

Distributed data handling

Secondary Keyword (Optional)

Data processing workflows and frameworks/pipelines

Primary Keyword (Mandatory)

Storage systems

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