Contribution ID: **27**   Type: **10 Minutes**

Direct IO, IO priority and Bandwidth Policies in EOS

Tuesday 8 March 2022 10:55 (15 minutes)

In preparation for Run-3 we have faced the following problem: we have to balance the usage of IO resources between individual activities, which has led to the implementation of IO priorities and bandwidth regulation policies. While commissioning the ALICEO2 EOS instance we have observed, that write performance using the buffer cache is a bottleneck on storage nodes. Direct IO helps to improve write performance on storage nodes and additionally to reduce tails in data upload times by experiment DAQ systems. The presentation will explain and implementation and how to use these features in production.

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Session Classification: EOS 3

Track Classification: EOS Core Development