

A new cluster finder for ALICE MUON arm for Run3

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Muon reconstruction is currently all done offline for ALICE. In Run3 this is supposed to move online, with ALICE running in continuous readout with a minimum bias Pb-Pb interaction rate of 50kHz.

There are numerous obstacles to getting the muon software to achieve the required performance, with the muon cluster finder being replaced and moved to run on a GPU inside the new O2 computing farm.

We will give an overview of where the muon reconstruction currently spends most of its time and how the new cluster finder has been redone in line with the O2 performance requirements, and how it improves the performance of current offline muon reconstruction and future online.

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