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Run-2 Physics Analysis Workflow using Software for HL-LHC

Recent developments in software to address challenges in the High-Luminosity LHC (HL-LHC) era allow novel approaches when interacting with the data and performing physics analysis. We employed software components primarily from IRIS-HEP to construct an analysis workflow of an ongoing ATLAS Run-2 physics analysis in the python ecosystem. The software components in the analysis workflow include a novel data delivery system, ServiceX, as well as analysis software. We integrate them into the traditional analysis workflow and compare with a typical ATLAS Run-2 workflow to assess performance and to understand potential practical issues in deployment, interoperability, collaboration, and interface stability.

Significance

References

Speaker time zone

Compatible with Asia

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