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ServiceX, the novel data delivery system, for physics analysis

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Effective data extraction has been one of major challenges in physics analysis and will be more important in the High-Luminosity LHC era. ServiceX provides a novel data access and delivery by exploiting industry-driven software and recent high-energy physics software in the python ecosystem. An experiment-agnostic nature of ServiceX will be described by introducing various types of transformer containers that run on Kubernetes cluster. Latest updates in the backend will be also discussed. The newly designed python client library, communicates with REST API of ServiceX, will be introduced with practical use cases within physics analysis pipelines. The future of ServiceX also will be briefly described.

References

https://iris-hep.org/projects/servicex.html

Experiment context, if any

Significance

ServiceX is now ready for users to come and try. Potential to change current and future physics analysis workflow. Possibility to extend its scope outside of ATLAS and CMS

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