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Data Management Package for the novel data delivery system, ServiceX, and its application to an ATLAS Run-2 Physics Analysis Workflow

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Recent developments of HEP software in the Python ecosystem allow novel approaches to physics analysis workflows. The novel data delivery system, ServiceX, can be very effective when accessing large datasets at remote grid sites. ServiceX can deliver user-selected columns with filtering and run at scale. I will introduce the ServiceX data management package, ServiceX DataBinder, for easy manipulations of ServiceX delivery requests and delivered data using a single configuration file. I will also introduce the effort to integrate ServiceX and Coffea into an ongoing ATLAS Run-2 physics analysis.

Author: CHOI, Kyungeon (University of Texas at Austin (US))

Presenter: CHOI, Kyungeon (University of Texas at Austin (US))

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