



Contribution ID: 544 Contribution code: **WEPD047**

Type: **Poster Presentation**

A serverless control system

Wednesday, 24 September 2025 16:30 (1h 30m)

Serverless refers to a set of principles and practices that offload the complexities of provisioning, managing and scaling infrastructure to a cloud computing provider. At Fermilab, the Controls department has been investigating how to bring the promise of Serverless on-premise by providing similar cloud-computing infrastructure to software development teams. In this paper we discuss how Fermilab is utilizing Fission, a product that brings Functions-as-a-Service to Kubernetes as a platform for hosting core “business logic” of its control system in a developer-friendly and scalable environment.

Funding Agency

Footnotes

Author: DIAMOND, John (Fermi National Accelerator Laboratory)

Presenter: DIAMOND, John (Fermi National Accelerator Laboratory)

Session Classification: WEPD Posters

Track Classification: MC10: Software Architecture & Technology Evolution