

Coffea-casa analysis facility

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The Coffea-casa analysis facility prototype provides physicists with alternative mechanisms to access computing resources and explore new programming paradigms. Instead of the traditional command-line interface and asynchronous batch access, a notebook-based web interface and interactive large-scale computing is provided. The facility commissions an environment for end-users enabling execution of increasingly-complex analyses, as demonstrated by the Analysis Grand Challenge (AGC) and other examples.

In this contribution, we describe the Coffea-casa facility design and the key features focusing on its modularity and portability. This facility is designed to be Kubernetes-native, allowing to adopt an approach to transform existing facilities (e.g., LHC Tier-2 sites) into highly composable systems. Targeting more generic configurations makes the facility modular and easily expandable and re-deployable on other sites.

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