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Fast analysis facility for HEP experiments

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The ever growing increase of computing power necessary for the storage and data analysis of the high-energy physics experiments at CERN requires performance optimization of the existing and planned IT resources.

One of the main computing capacity consumers in the HEP software workflow is the data analysis. To optimize the resource usage, the concept of Analysis Facility (AF) for Run 3 has been introduced. The AFs are special computing centres with a combination of CPU and fast interconnected disk storage resources, allowing for rapid turnaround of analysis tasks on a subset of data. This in turn allows for optimization of the analysis process and the codes before the analysis is performed on the large data samples on the WLCG Grid.

In this paper, the structure and the first benchmark tests of the Wigner AF are presented.

Significance

References

Experiment context, if any

Primary author: BIRO, Gabor (Wigner Research Centre for Physics (Wigner RCP) (HU))

Co-author: Dr BARNAFOLDI, Gergely Gabor (Wigner Research Centre for Physics (Wigner RCP) (HU))

Presenter: BIRO, Gabor (Wigner Research Centre for Physics (Wigner RCP) (HU))

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