Contribution ID: **173** Type: **Talk**

Fair sharing of resources between clusters with AUDITOR

Monday, October 23, 2023 1:45 PM (15 minutes)

For several years, we have been dynamically and opportunistically integrating the computing resources of the HPC cluster NEMO into the HTC cluster ATLAS-BFG using the COBalD/TARDIS software. To increase usage efficiency, we allow the integrated resources to be shared between the various High Energy Physics (HEP) research groups in Freiburg. However, resource sharing also requires accounting. This is done with AUDITOR (AccoUnting DatahandlIng Toolbox for Opportunistic Resources), a flexible and extensible accounting ecosystem that can cover a wide range of use cases and infrastructures. Accounting data is recorded via so-called collectors and stored in a database. So-called plugins can access the data and take measures based on the accounting documents. In this work, we present how NEMO resources can be fairly shared among contributing working groups when integrated into ATLAS-BFG using AUDITOR.

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Session Classification: Talks

Track Classification: Neuroscience, Elementary Particle Physics, Micro Systems Engineering, and Materials Science