HPCs in Spain: Use of Extra Resources

- The ATLAS Event Index is a catalogue of all events that includes event identification, trigger and references to events in data files. It is an industry best big data SQL DB, which stores all real and simulated data, and/or Oracle storage database for fast data set discovery.
- It currently contains 43 Billion events for 2007 and 18 Billion events for 2017 real data and MC in Hadoop.
- The IFIC-Tier2 group is the coordinators of the Data production task where Tier2 index merged physics AODs, and Grid jobs collect info from ESFNT and AOD datasets as soon as they are produced and marked "ALL EVENTS AVAILABLE" in AMC.
- DAS can be loaded on demand.
- IFIC has developed the Data Collection tool and currently has put into production the new object Store-based approach as temporary storage with very good results.
- The new Data Collection controller controls the system and keeps the system running with consistent data.
- IFIC developers recently asked a new feature that allows to get trigger events and overlapping in "human time" scales, processing millions of events in less than 2 minutes. Figure shows a heatmap of the trigger overlap of a dataset.
- IFIC is participating in the evolution of the Event Index to support the future challenges of both Tier2 and beyond.
- This evolution forces the extension to what is called an Event Whiteboard, which is a data visualization of the entire event.
- As of this evolution, the IFIC is testing new back-end storage technologies like Rados, to support the new model and requirements.

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