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The BaBar Long Term Data Preservation and Computing Infrastructure

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BaBar stopped data taking in 2008 but its data is still analyzed by the collaboration. In 2021 a new computing system outside of the SLAC National Accelerator Laboratory was developed and major changes were needed to keep the ability to analyze the data by the collaboration, while the user facing front ends all needed to stay the same. The new computing system was put in production in 2022 and we will describe its unique infrastructure, based on cloud compute in Victoria, Canada, data storage at GridKa, Germany, streaming data access, as well as the possibility to analyze any data from anywhere. We will show advantages of the current system and how to run an old and outdated OS in current infrastructures, complications we faced when developing the system, as well as our experience in running and using it for about 2 years. It may be of interest to other groups and experiments when planning data preservation with the ability to continue to analyze the data, even decades after data taking has stopped.

Primary author: Dr EBERT, Marcus (University of Victoria)

Co-authors: RONEY, Michael; SOBIE, Randall (University of Victoria (CA))

Presenter: Dr EBERT, Marcus (University of Victoria)

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