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CAFlux: A New EPICS Channel Archiver System

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We present a new EPICS channel archiver system which is being developed at LANSCE of Los Alamos National Laboratory. Different from the legacy archiver system, this system is built on InfluxDB database and Plotly visualization toolkits. InfluxDB is an open-source time series database system and provides a SQL-like language for fast storage and retrieval of time series data. By replacing the old archiving engine and index file with InfluxDB, we have a more robust, compact and stable archiving server. On a client side, we intro- duce a new implementation combined with asynchronous programming and multithreaded programming. We also describe a web based archiver configuration system which is asso- cated with our current IRMIS system. To visualize the data stored, we use Javascript Plotly graphing library, another open souce toolkits for time series data, to build front-end pages. Finally, we propose some ideas to integrate basic data statistical analysis into this system.

Primary author(s) : Mr XU, Kanglin (LANL)

Presenter(s) : Mr XU, Kanglin (LANL)

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