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Data analysis system for Super Charm-Tau Factory at BINP

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Super Charm-Tau Factory (CTF) is a future electron-positron collider with center-of-mass energy range from 2 to 5 GeV and unprecedented for this energy range peak luminosity of about $10^{35} \text{ cm}^{-2}\text{s}^{-1}$. The project of CTF is being developed in the Budker Institute of Nuclear Physics (Novosibirsk, Russia). The main goal of experiments at Super Charm-Tau Factory is a study of the processes with charm quarks or tau leptons in the final state using data samples, which are by 3–4 orders of magnitude higher than collected by now in any other experiments.

The peak input data flow up to 10 GBytes/s and very large collected data volume, estimated to be 200 PBytes, require to design large scale data storage and data analysis system. We overview the requirements for the computer infrastructure of Super Charm-Tau Factory and discuss the main design solutions.

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