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Distributed computing infrastructure for the SPD experiment

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The SPD experiment at the NICA collider involves not only the processing of multiple petabytes of data per year obtained from the detector, but also the production of similar amounts of data as part of the modeling of physical processes and expected signals from the front-end electronics. Because of this, the SPD experiment relies heavily on distributed computing for offline data storage and processing. In this talk we present preliminary steps to build a distributed computing infrastructure for the SPD experiment, including the network backbone, storage and computing facilities at participating parties, their software components and configuration along with some higher-level software components necessary for the smooth operation of such infrastructure.

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