

Performance Estimation and Mapping of Structured Data to POSIX-like File Systems

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Abstract

Many scientific applications still assume a file system to store measurements and results. As a result almost every data center today provides storage with POSIX interfaces for legacy applications. More modern applications are using data description formats such as HDF5 to store data. As part of this project/thesis you would design and implement a mapping of structured data to POSIX file/directory structures. You will learn about wide-spread data formats used by many industries and scientists, as well as low-level system programming for Linux based systems.