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Best practices for using tiered storage in research

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Research today generates vast amounts of data which has to be analyzed, stored and, eventually, archived. This often necessitates the use of large storage systems, which consume considerable amounts of energy and natural resources. Therefore, it is paramount to use these storage systems in an efficient manner. To achieve this goal, it is necessary to use a tiered combination of different storage media, from fast SSDs for currently used data to long-living magnetic tapes for inactive data, and to set criteria on when data should be kept on a specific media and when it should be moved. In this talk I will present best practices for the efficient access to and use of different storage media in your day-to-day research and illustrate how you can set storage tier criteria that fit your research workflow.

Abstract

Poster

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