

Experimental Testbeds as a Foundation for Reproducibility of Experiments

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Computer Science experimental testbeds allow investigators to explore a broad range of different state-of-the-art hardware options, assess scalability of their systems, and provide conditions that allow deep reconfigurability and isolation so that one user does not impact the experiments of another. Although the primary purpose of those testbeds is to provide resources to users who would not be able to satisfy their experimental needs otherwise, an important side-effect is that multiple users and user groups have access to the same resources, that are compatible with the same experimental artifacts, such as appliances/images or orchestration templates. This creates conditions which allow users to share experiments and replicate each other's work more easily and creates an opportunity to foster good experimental practices as well as create a sharing ecosystem.

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Primary author: KEAHEY, Kate (ANL)

Presenter: KEAHEY, Kate (ANL)

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