



Simulators for Research on **Workflow Execution**
Simulators for **WMS Development**

C++ Framework for modular simulators

WRENCH User API

Makeflow

Pegasus

Nextflow, Snakemake Prototype, etc.

Simulated production and prototype WMS

WRENCH Developer API

Computation

Storage

Network

Data Locality

Simulated core CI services

SimGrid::S4U API

SIMGRID

Simulated core software/hardware stacks