

HEPnOS: Fast Event-Store for High-Energy Physics (HEP)

Goals

- Manage physics event data from simulation and experiment through multiple phases of analysis
- Accelerate access by retaining data in the system throughout analysis process
- Reuse components from Mochi ASCR R&D project

Properties

- Read in data at start of run and write results to persistent storage at the end of a campaign
- Hierarchical namespace matching physics concepts (datasets, runs, subruns)
- C++ API (serialization of C++ objects)
- Write-once, read-many

