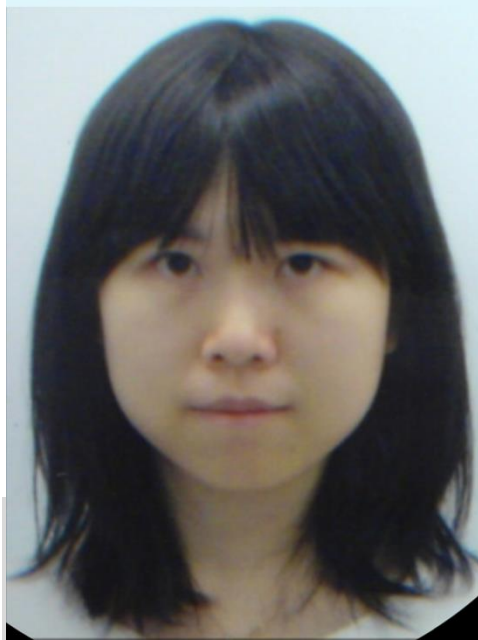
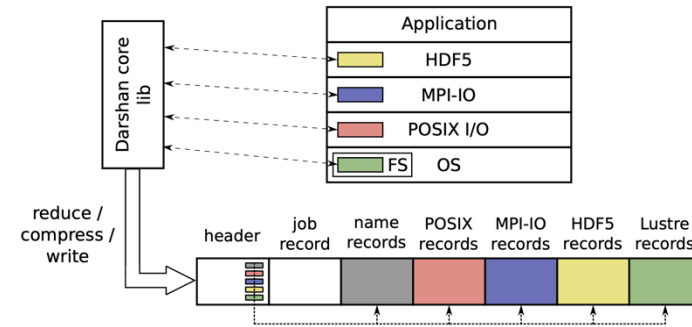


Darshan



The Darshan I/O characterization tool has provided key insights into High Energy Physics (HEP) experiments such as ATLAS. For example, collaboration between our teams in the HEP-CCE (High-Energy Physics Center for Computational Excellence) project has led to **new insights that enable more efficient management of the exabyte-scale data produced by the ATLAS experiment**, with Darshan data helping drive critical data management design decisions for the ATLAS Athena software framework. Furthermore, practical experience with using Darshan in this framework has led to key enhancements to Darshan that should help broaden its impact to other software frameworks employing complex multi-process workflows. *-Rui Wang, ANL (Mar-13-2025)*



High-level overview of Darshan's modularized runtime architecture and self-describing log file format