

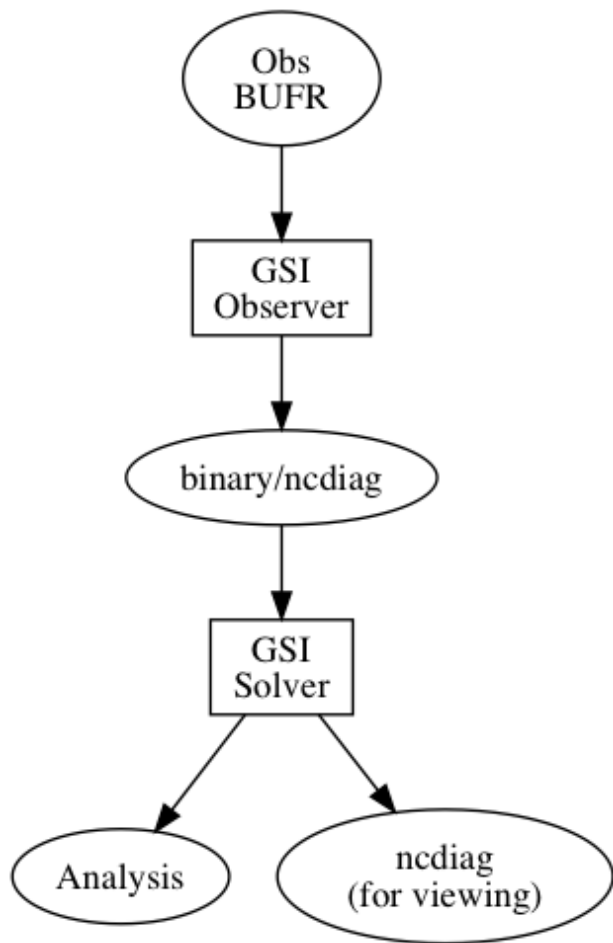
IODA Update

Stephen Herbener

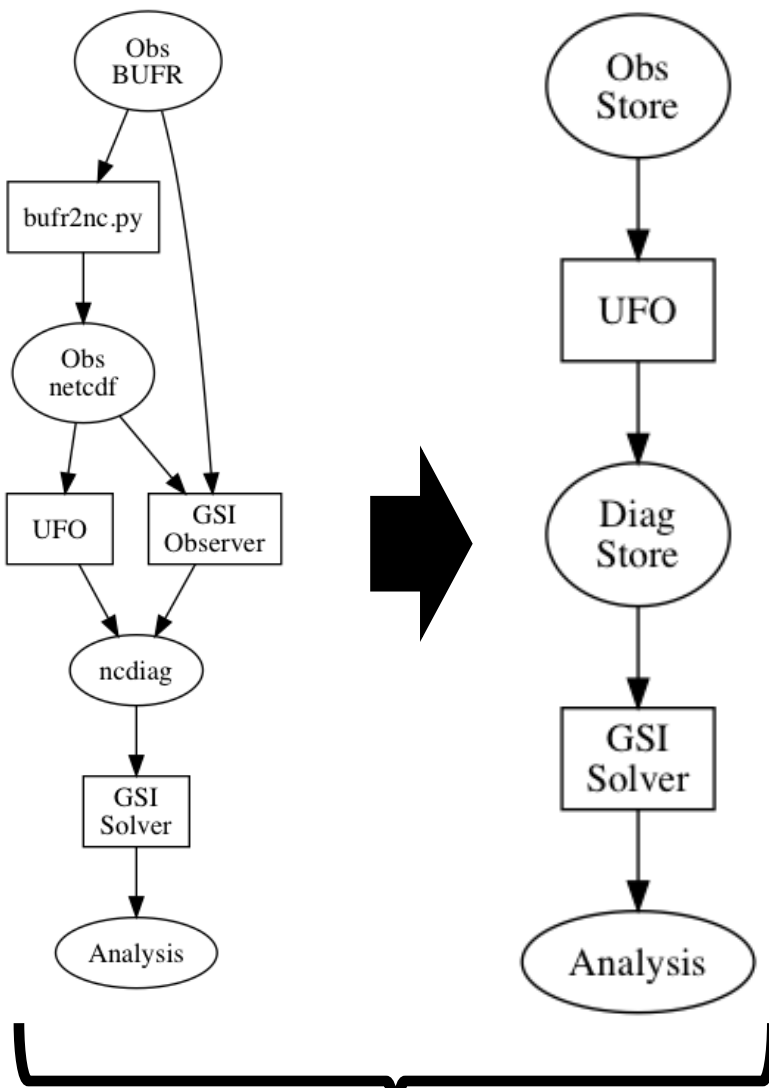
JEDI Core

4/12/18

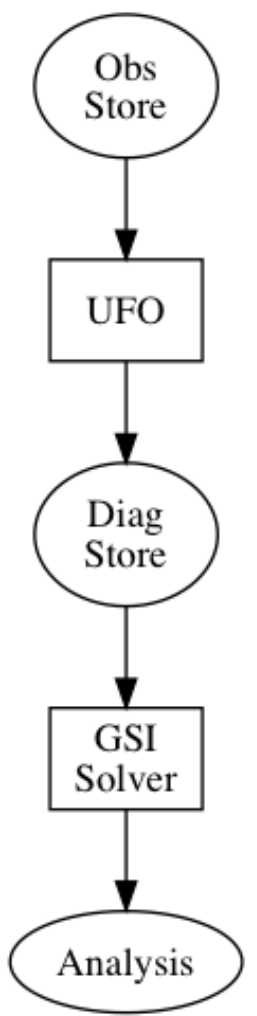
JEDI Big Picture



Start



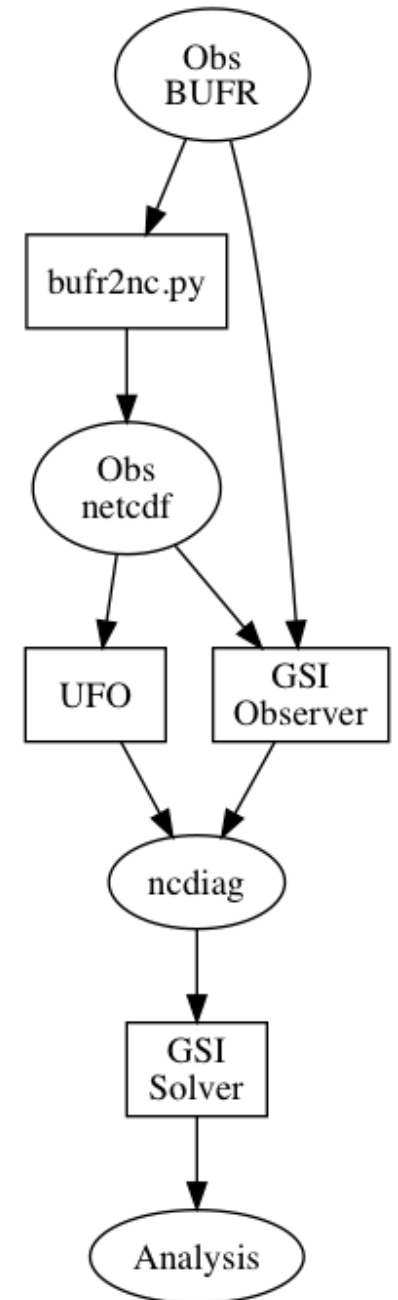
Now



Future

IODA: Status

- Split GSI/UFO flow (left) is work in progress
 - Plan is to use GPSRO for the first obs type through the UFO path
 - Targeting Fall of 2018 for completion
- Using intermediate netcdf files to connect pieces
- Obs netcdf
 - Using BUFR mnemonic naming convention for variables
- Diag netcdf (ncdiag)
 - Using GSI naming convention for variables
- Remaining work
 - Add Obs netcdf format to IODA reader
 - Enables reading of multiple observations (T,q,u,v) in one call
 - IODA reader will continue to handle ncdiag format
 - Add GPSRO to bufr2nc.py
 - Enables first obs type for UFO path



IODA: Plans

- Eventually replace GSI Observer with UFO
- Considering what to use for Obs and Diag Store
 - Want these to be the same format
 - Needs to be highly efficient (fast and compact)
 - Handle large amount of data
 - Support MPI, Parallel I/O
- Potential candidates for Obs and Diag Store
 - CF netcdf
 - ODB
 - ?
- Tasks
 - Decide what will be used for Obs and Diag store
 - Merge common reader/writer code into IODA
 - GSI and UFO will use the merged IODA reader/writer

