DMP Implementation Status of IPP

2025-01-15

Use cases

- As a user, I would like to be able to access the phase A data at the Gateway via a web browser; after finding an interesting shot I would like to be able to access the phase B data after authenticating in the browser and then being able to download (or browse/plot) the data from (in) the browser
- As a user, I would like to be able to able to authenticate and fetch the phase B data using a command line interface
- As a data supplier, I would like to have a detailed description of what the server will receive when a data access request is made, how the information will be supplied that the user has been authenticated, and how best to check that the user is authorized to access the data, before providing the requested data
- As a data supplier, I would like to register what phase B data is available for each shot

Continued work on trview

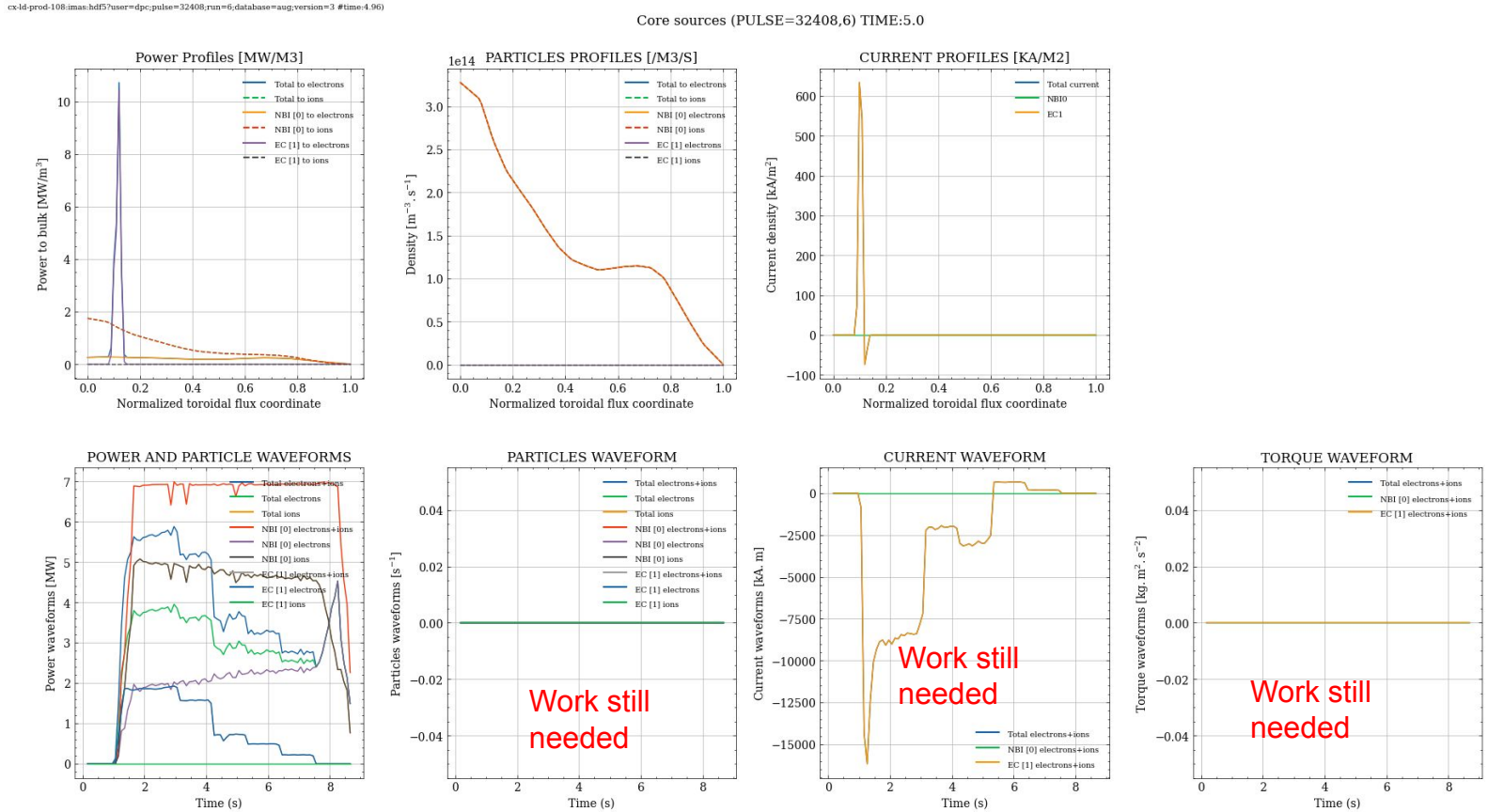
- Previous state
  - Problems running various IDStools on the trview produced IDSes
    - **printcoresources** failed because grid/volume is not set
      - core_sources.source[0].profiles_1d[0].grid.volume
    - **plotcoresources** failed because no global_quantities are stored
      - core_sources.source[0].global_quantities
    - **plothcdwaves** failed because (?) because there is no grid data
      - waves.coherent_wave[6].profiles_1d[0].grid
    - **plothcddistributions** failed because global_quantities are not defined
      - distributions.distribution[0].global_quantities
- Giovanni’s solution to fixing these was to give me write access to the trview repository

Fixed: printcoresources

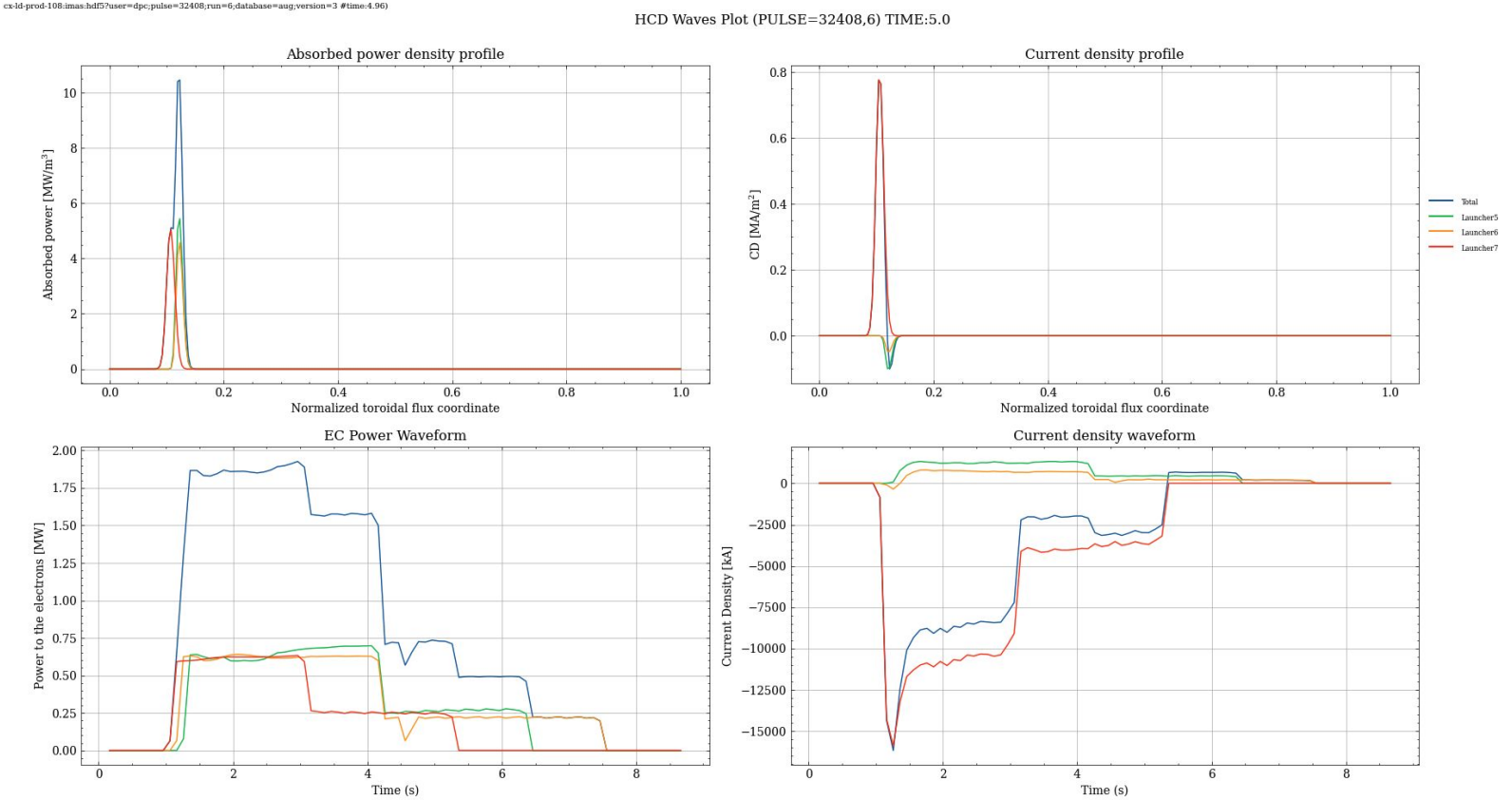
Showing details for cx-ld-prod-108:imas:hdf5?user=dpc;pulse=32408;run=6;database=aug;version=3 #time:4.96)

nbi	particles (1.202231e+21)	energy (2.126677e+06)		
a	z_n	z_ion	particles	energy
2.0	1.0	1.0	1.202231e+21	4.484336e+06
ec	particles(--)	energy (5.525979e+05)		
a	z_n	z_ion	particles	energy

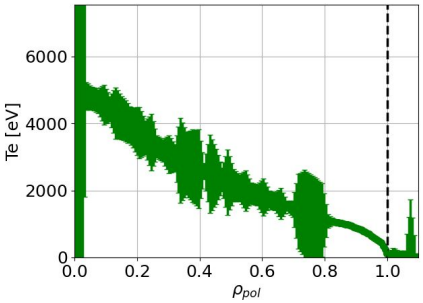
Fixed: plotcoresources (though more work is still needed)

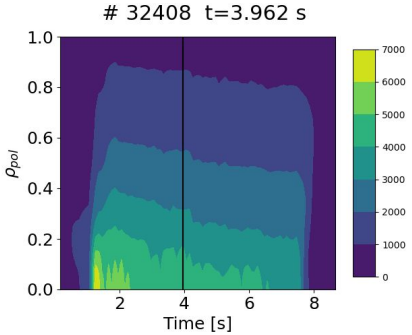


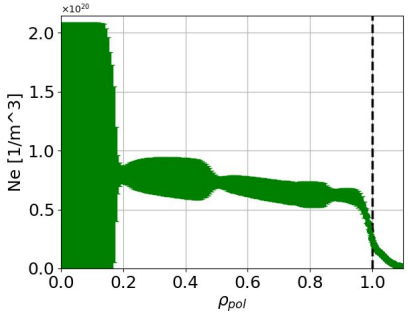
Fixed: plothcdwaves

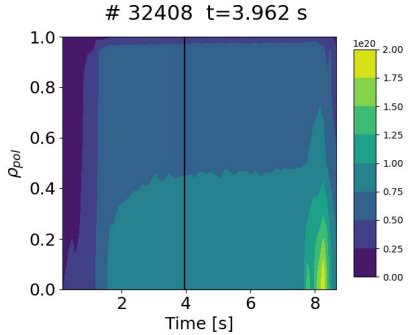


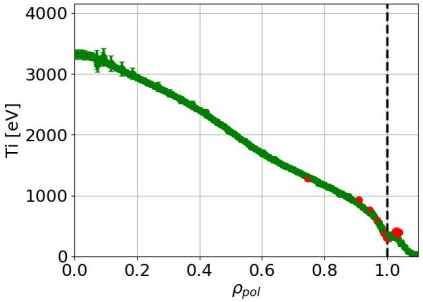
Example profiles from trview

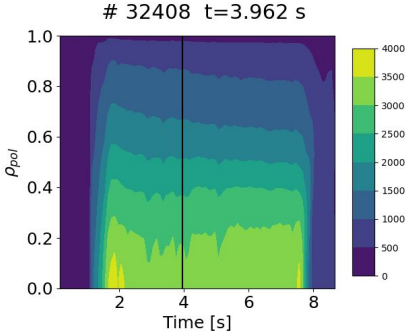


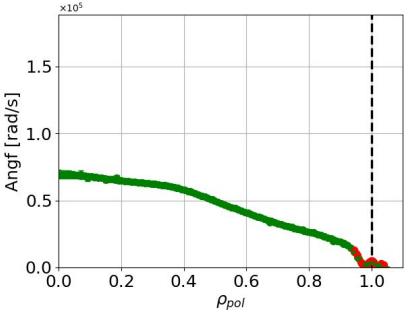


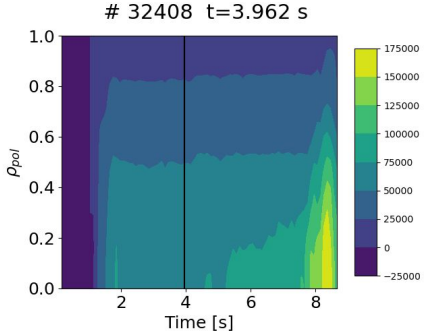




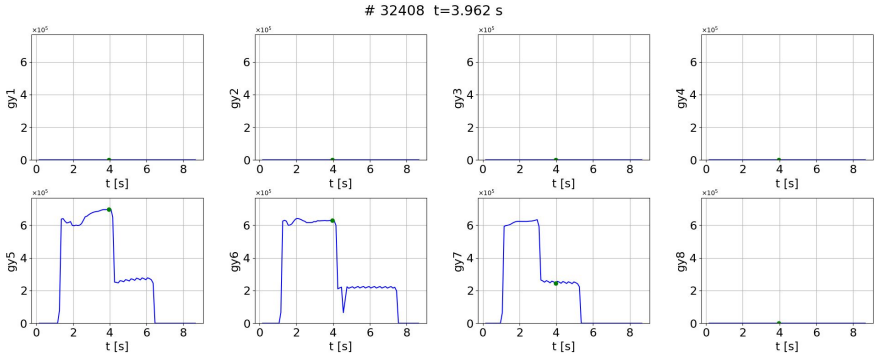


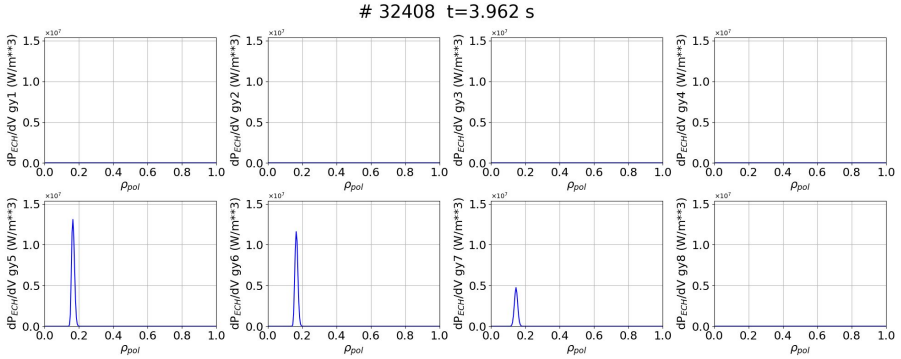


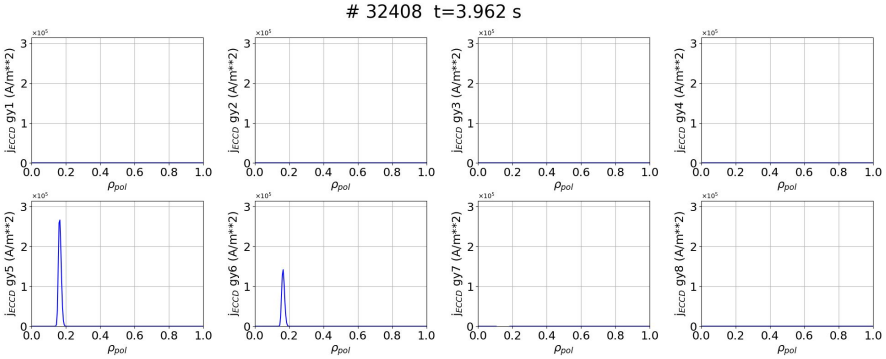


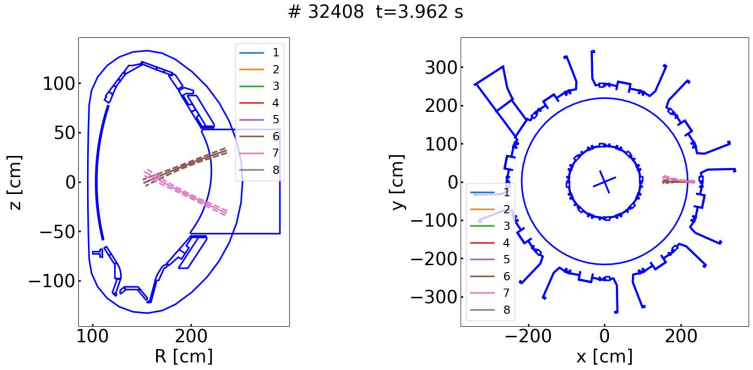


Example output from trview/torbeam

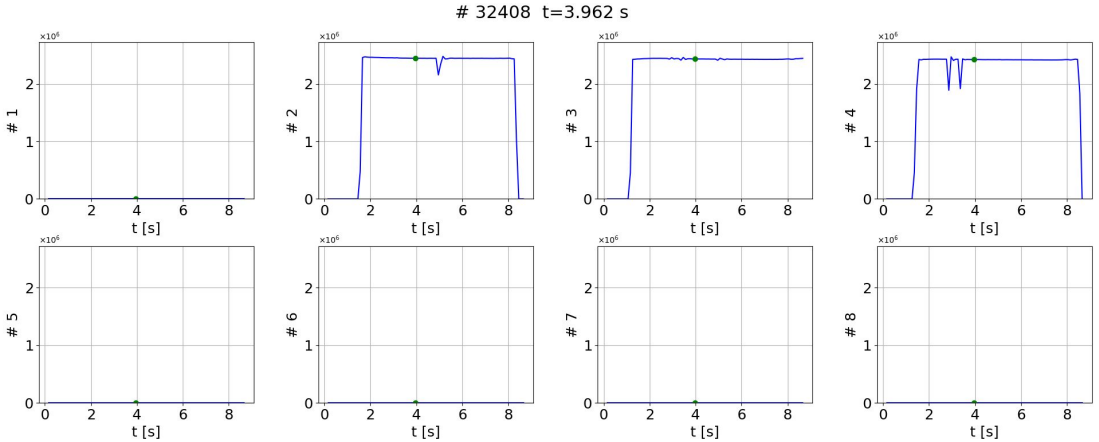


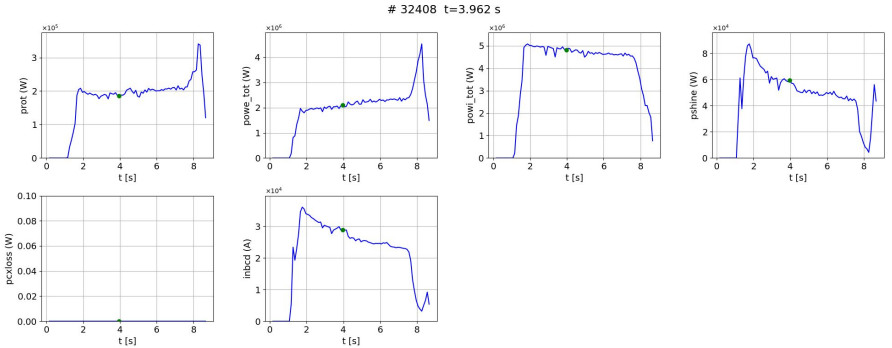


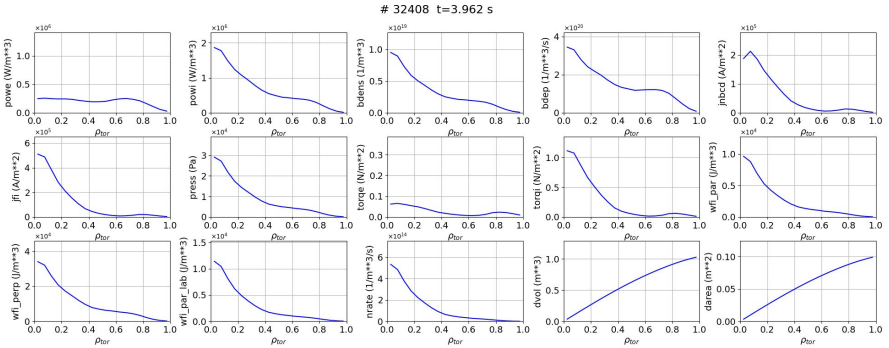
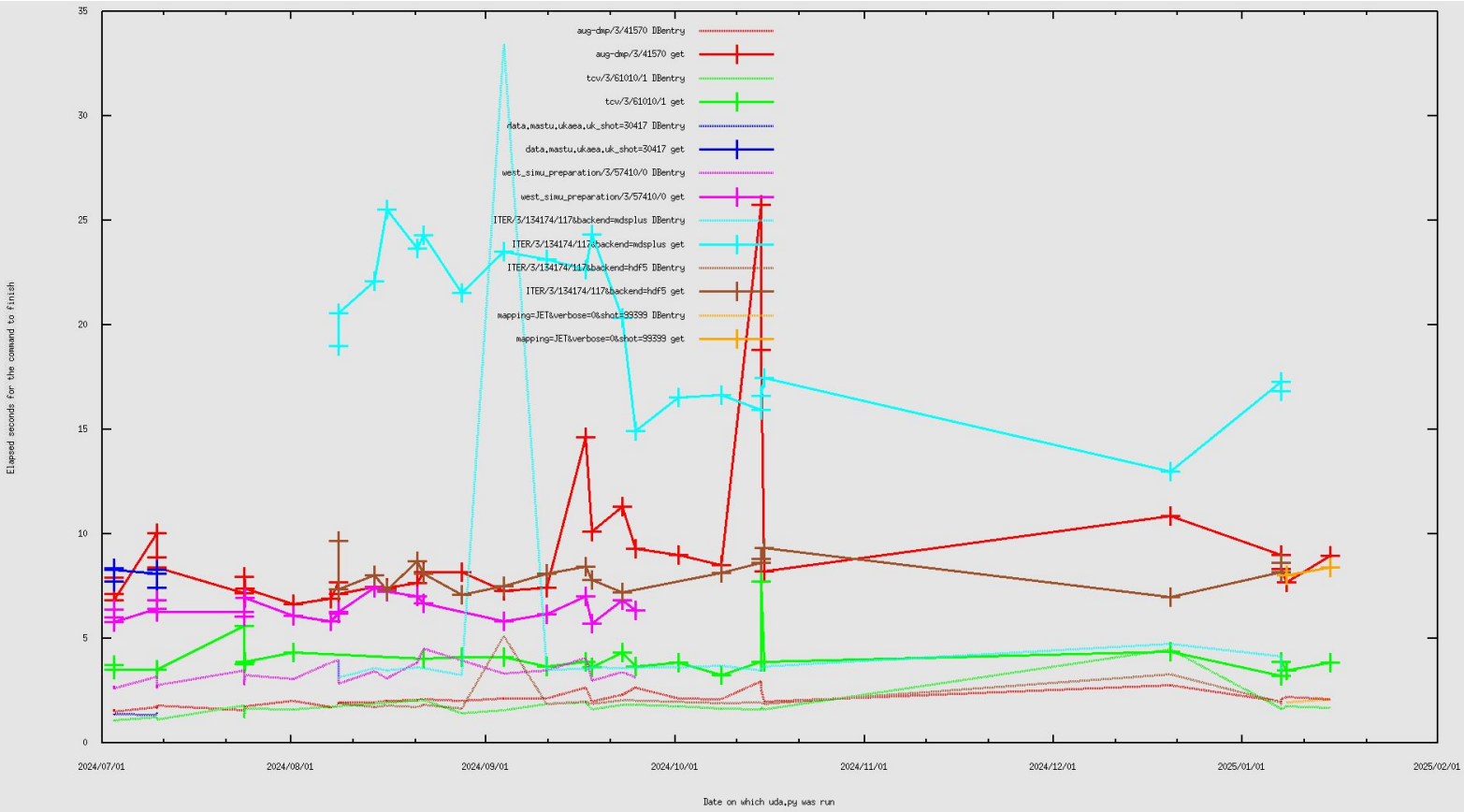




Example output from trview/rabbit







Data access times