DMP Implementation Status of IPP

2025-09-03

IMAS versions updated on the TOK and Citrix systems
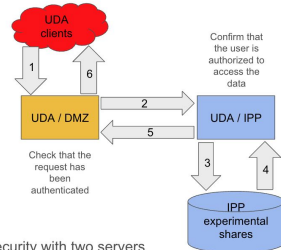
DD	AL	TOK cluster	Citrix system
3.38.1	4.11.4		2023-06-08
3.39.0	4.11.5	2023-07-26	2023-07-31
3.39.0	5.0.0	2023-10-10	
3.41.0	4.11.10	2024-04-17	
3.41.0	2024.07-foss-2023b		2024-08-11
3.42.0	2024.08-foss-2023b		2024-08-13
3.42.0	2024.08.1-foss-2023b	2024-08-23	2024-08-22
3.42.0	2024.08.1-intel-2023b	2024-08-23	2024-08-22
3.42.0	4.11.10		2024-10-09
3.42.0	2024.09-foss-2023b	2024-10-21	2024-10-21
3.42.0	2024.09-intel-2023b	2024-10-21	2024-10-21
4.0.0	2024.12-foss-2023b	2025-01-22	2025-01-22
4.0.0	2024.12-intel-2023b	2025-01-22	2025-01-22

- Entries in red have a problem after the cluster upgrade
  - Underlying python changed, together with numpy
    - Remove?

Produced alternative topologies for IPP UDA service

- https://docs.google.com/presentation/d/1Y5em0SSU8GSXH84SkFDFfo1v31jWhC4acNjPl2OjVNY/edit?slide=id.p#slide=id.p
- Discussed with the new AUG Experiment Leader and AUG-IT lead
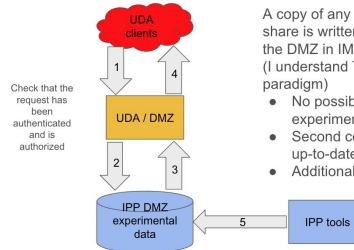 - Both seem to prefer my primary choice

Proposed topology

- No second copy of data is needed
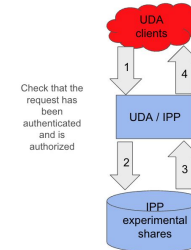- Might need to throttle access during shot days

Confirm that the user is authorized to access the data

Check that the request has been authenticated

Read only access

- Enhanced security with two servers

Alternative topology I

Check that the request has been authenticated and is authorized

A copy of any data IPP wants to share is written to data storage in the DMZ in IMAS IDS format (I understand TCV is following this paradigm)
- No possibility of impact to experiment
- Second copy needs to be kept up-to-date
- Additional storage is needed

Alternative topology II

Check that the request has been authenticated and is authorized

Direct access from the internet to a server inside IPP's firewall which has access to AUG data
- Shorter access path than main proposal but (in my estimation) less secure
- The server should be configured so that it only has read access to AUG data

Some updates to "IDS_by_device_and_code"

I have added two columns to
https://docs.google.com/spreadsheets/d/18LBTtpIWsUVxRzY83PuQIfauyHTSv0UQULpyZuXfjkc/edit?gid=0#gid=0
containing entries for the ETS-PAF and IDA (guessed)

Just received: do we want to provide a community response

改进的邮件模板
Dear David Coster,

I am Xueyi Li, a Ph.D. Candidate at Wuhan University. I know you through your scientific dataset entitled "Experimental investigation and SOLPS-ITER modeling of Ne-seeded radiative divertor H-modes plasma on EAST" from ScienceDB. And I am writing to kindly solicit your participation in a survey on researchers' use of data search tools for discovering open data to find out your general views.

Data is a fundamental resource for research. The open data movement provides opportunities for sharing, obtaining, integrating, and reusing existing datasets. However, researchers face a new challenge: before data collection and reuse, how do we effectively find relevant datasets published on the Web? The open dataset is as useful as its discovery mechanisms and dataset search tools provide a promising solution to overcome this challenge. These tools allow researchers to search for the datasets relevant to their data needs and obtain up the description of datasets to evaluate datasets. It contributes to discovering the existence, characteristics, and accessibility of datasets. And I am carrying out a research project aiming to explore researchers' discovery of open data and the role of data search tools, especially generative AI tools in this process, which provides support for optimizing the practice of open data retrieval. This survey is a vital component of this project.

Your participation is greatly important to us and the questionnaire will take you around 5 minutes to complete. We guarantee that all responses will be treated as confidential and used only for this research project, in which the results of this study will be included in an article discussing researchers' dataset discovery. We will strictly follow the law including the International Covenant on Civil and Political Rights of the United Nations, General Data Protection Regulation and the Cybersecurity Law of the People's Republic of China and ethical research guidelines in ensuring the confidentiality of any private information that you have disclosed. All results will be analyzed in aggregate only and the answer will never be associated with individual participants. The e-mail contact details will be deleted from the survey results data file.

If you have used the Science Data Bank's Data Discovery Chat (beta) or any other data retrieval systems integrated generative AI technologies, please follow this link:
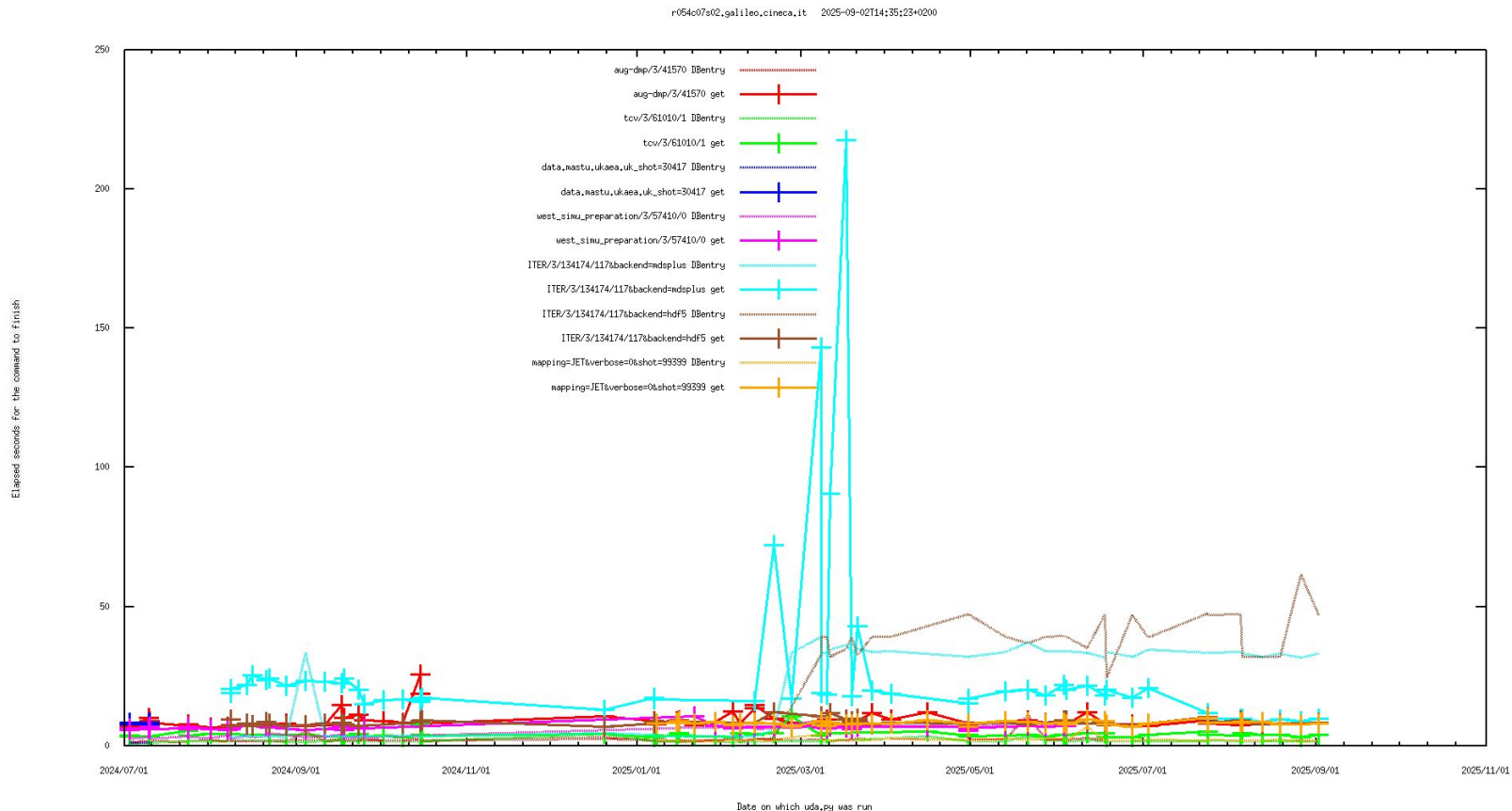
https://forms.office.com/r/fXkcLtGjt7

By submitting your responses are indicating your consent to participate in this survey. Your participation in this research is voluntary. You have the right to withdraw at any point during this survey, for any reason, and without any prejudice. If you have any questions about this survey, please feel free to contact me at lixueyi_sim@whu.edu.cn.

Thank you for your consideration and participation. It is very valuable to me.
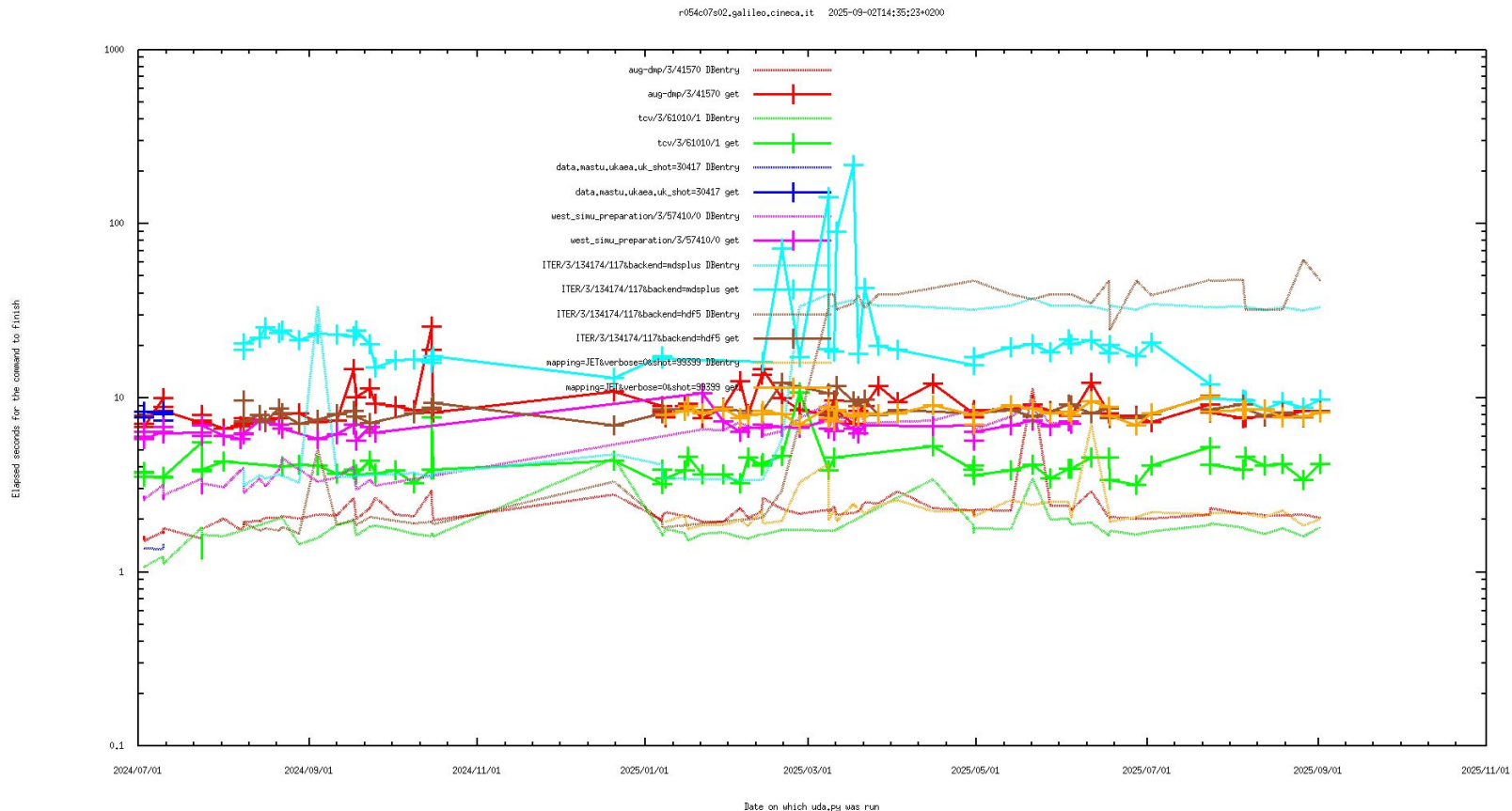
With regards,

Xueyi Li
Ph.D. Candidate
School of Information Management Wuhan University
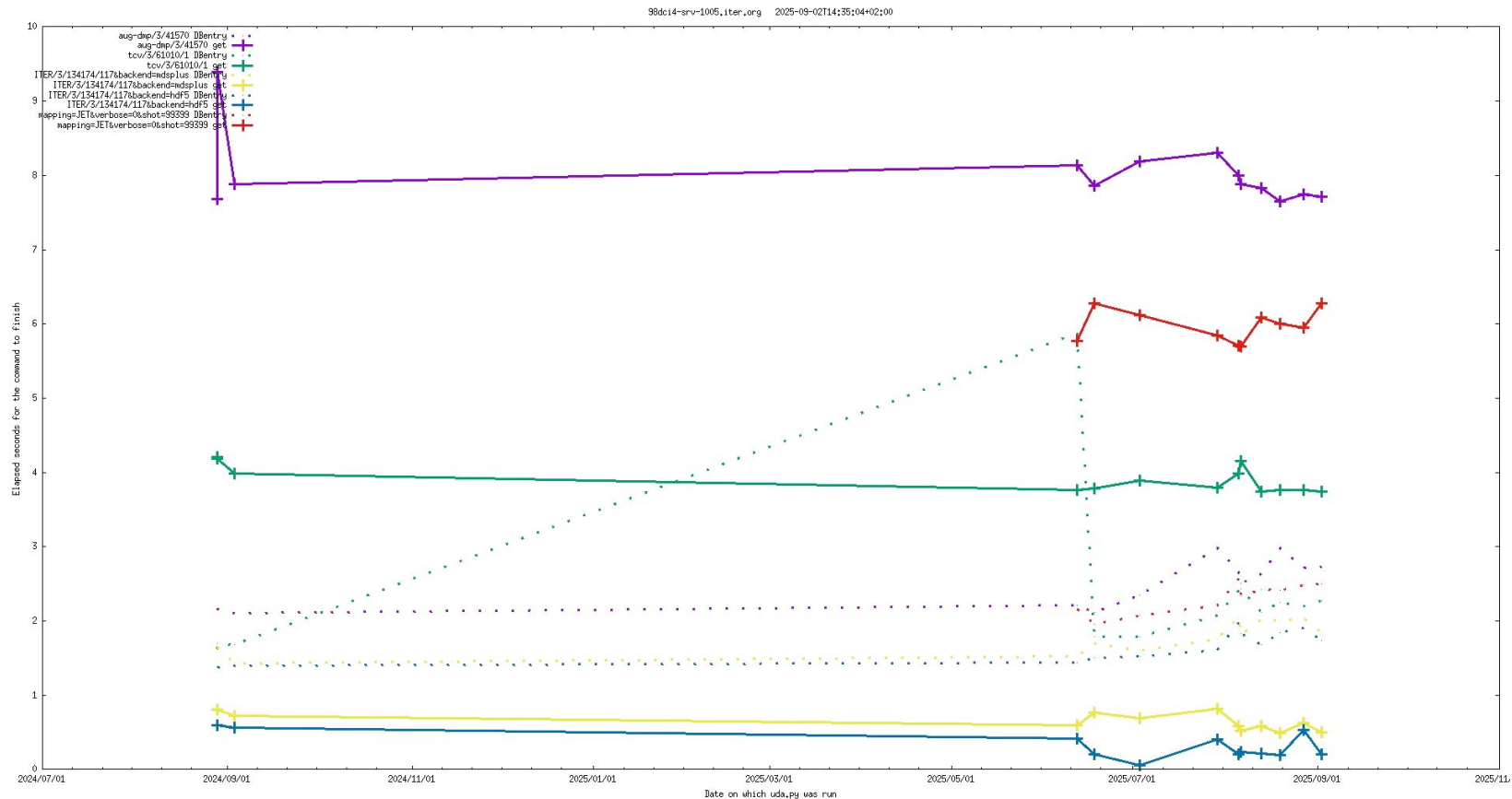Email: lixueyi_sim@whu.edu.cn
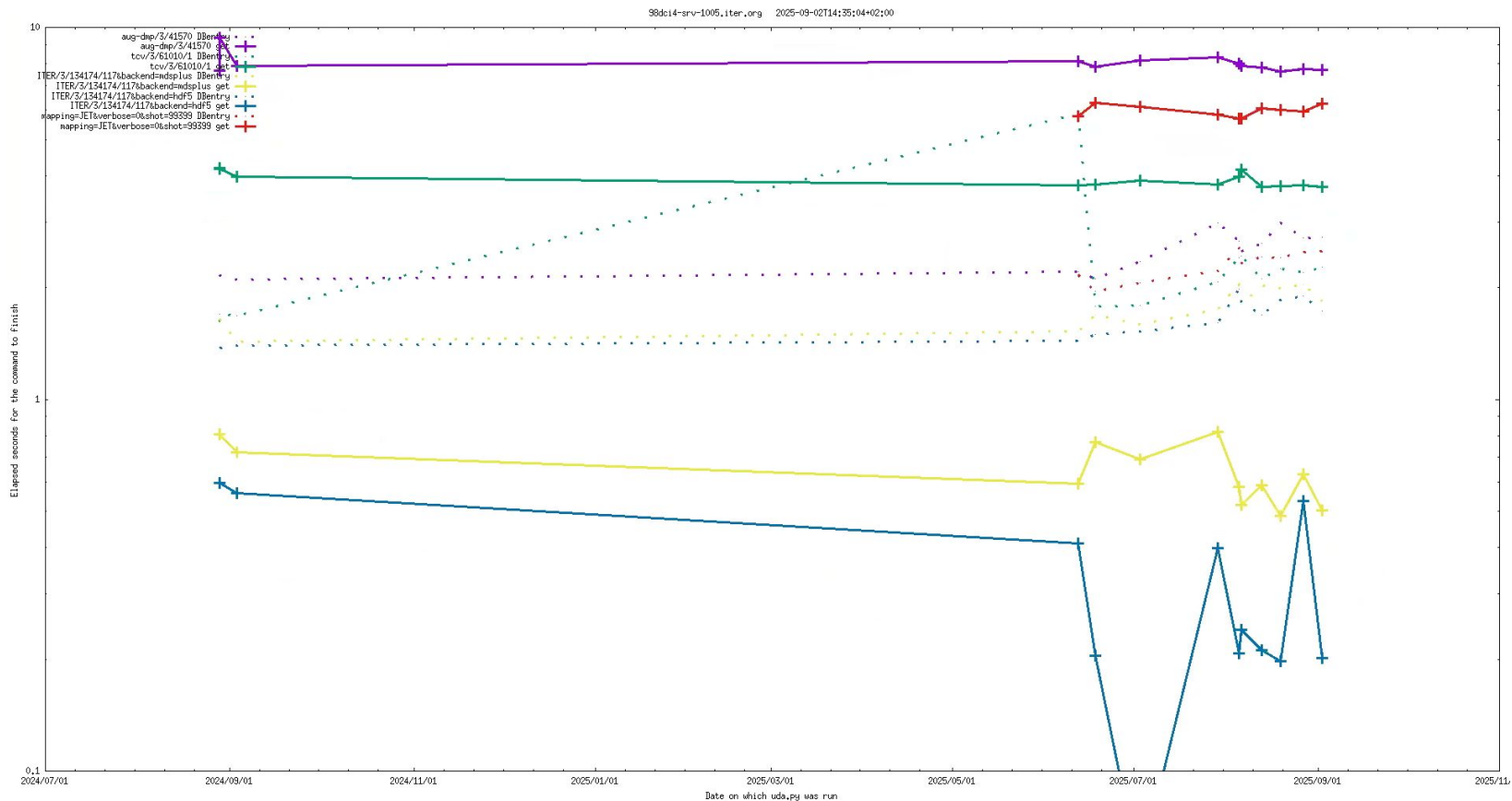
Data access times: run on Gateway

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Legend:
- aug-dmp/3/41570 DBentry
- aug-dmp/3/41570 get
- tcv/3/61010/1 DBentry
- tcv/3/61010/1 get
- data.mastu.ukaea.uk_shot=30417 DBentry
- data.mastu.ukaea.uk_shot=30417 get
- west_simu_preparation/3/57410/0 DBentry
- west_simu_preparation/3/57410/0 get
- ITER/3/134174/117&backend=mdsplus DBentry
- ITER/3/134174/117&backend=mdsplus get
- ITER/3/134174/117&backend=hdf5 DBentry
- ITER/3/134174/117&backend=hdf5 get
- mapping=JET&verbose=0&shot=99399 DBentry
- mapping=JET&verbose=0&shot=99399 get

Y-axis: Elapsed seconds for the command to finish

X-axis: Date on which uda.py was run
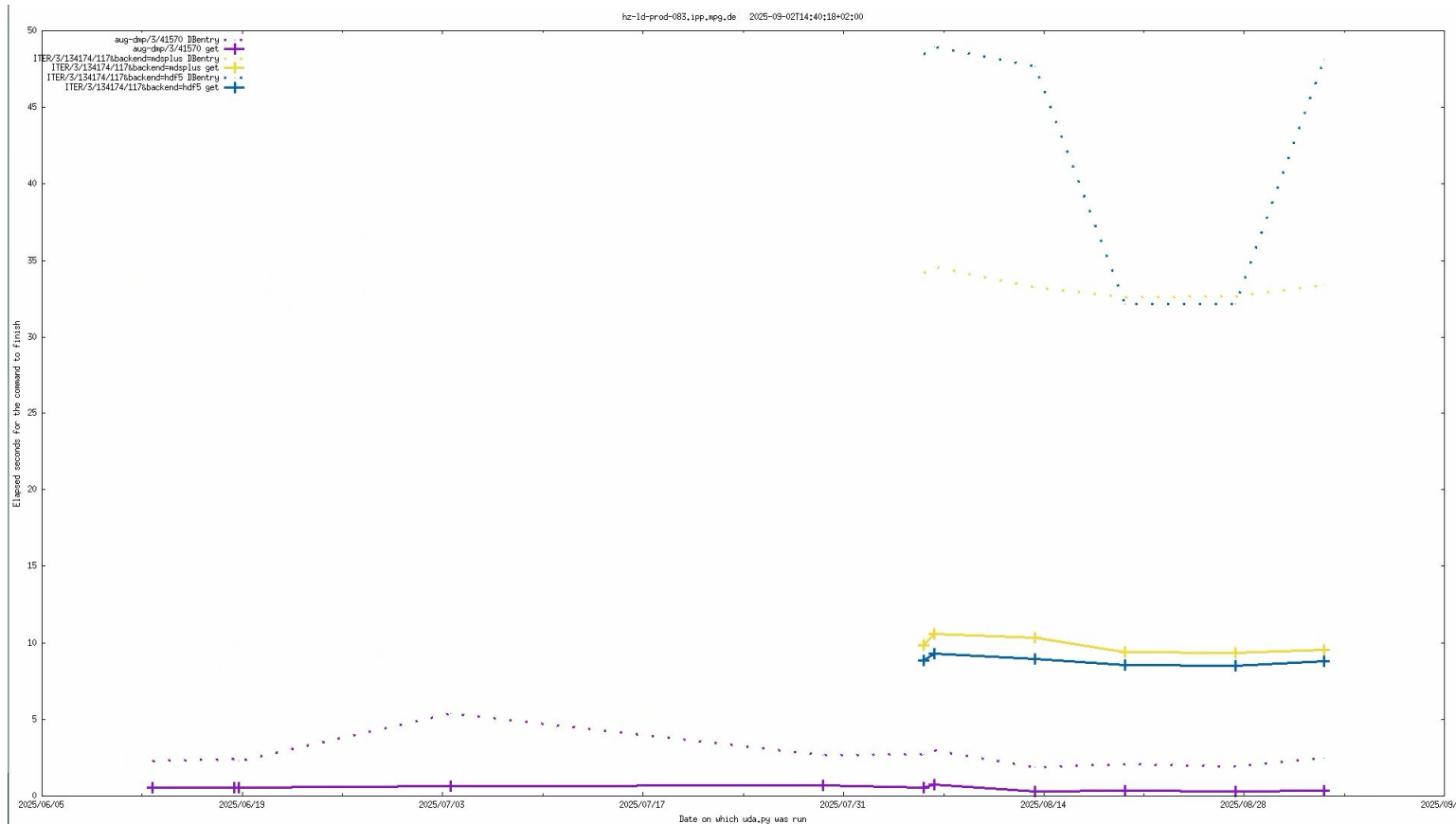
Data access times: run on Gateway
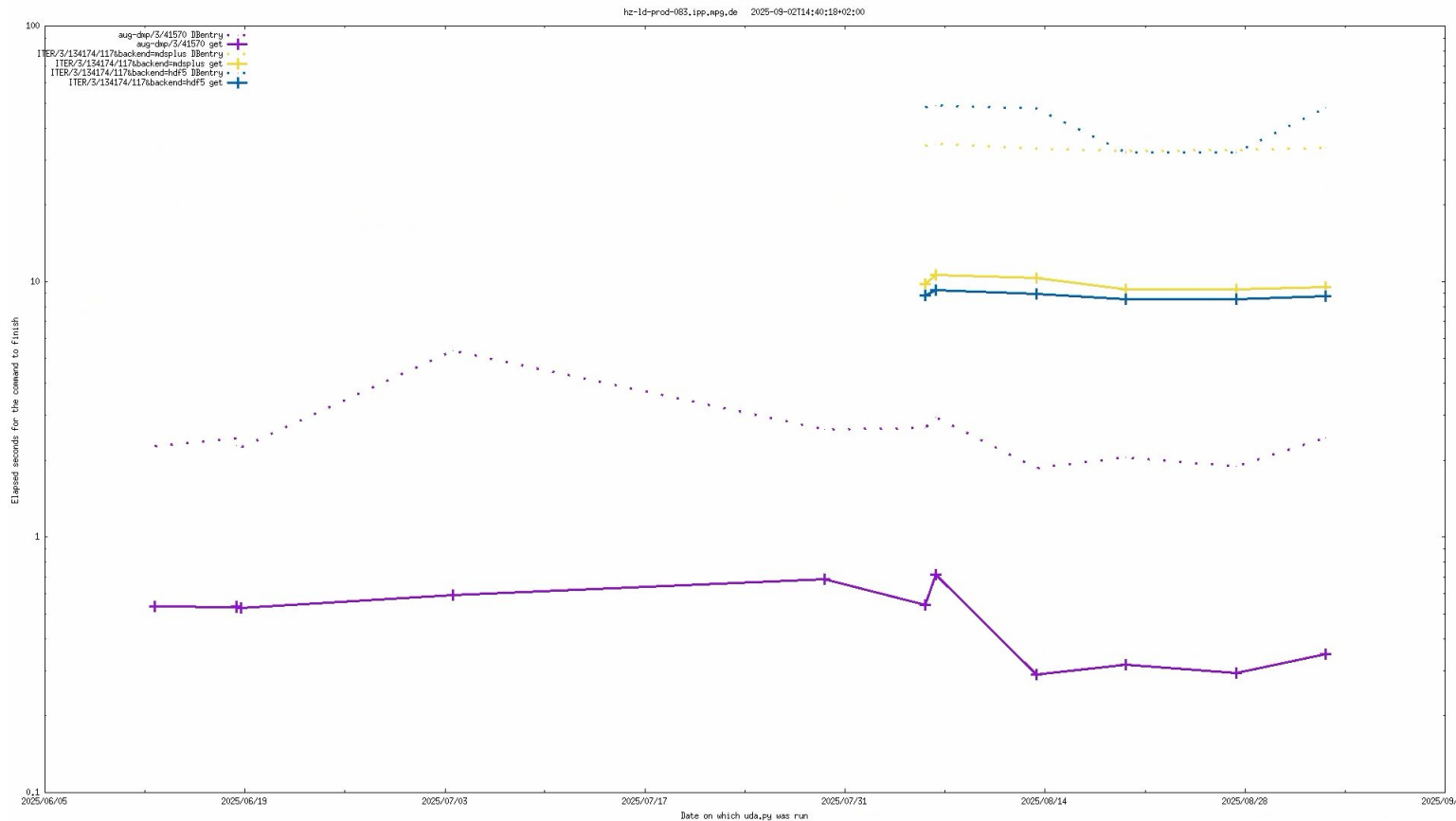
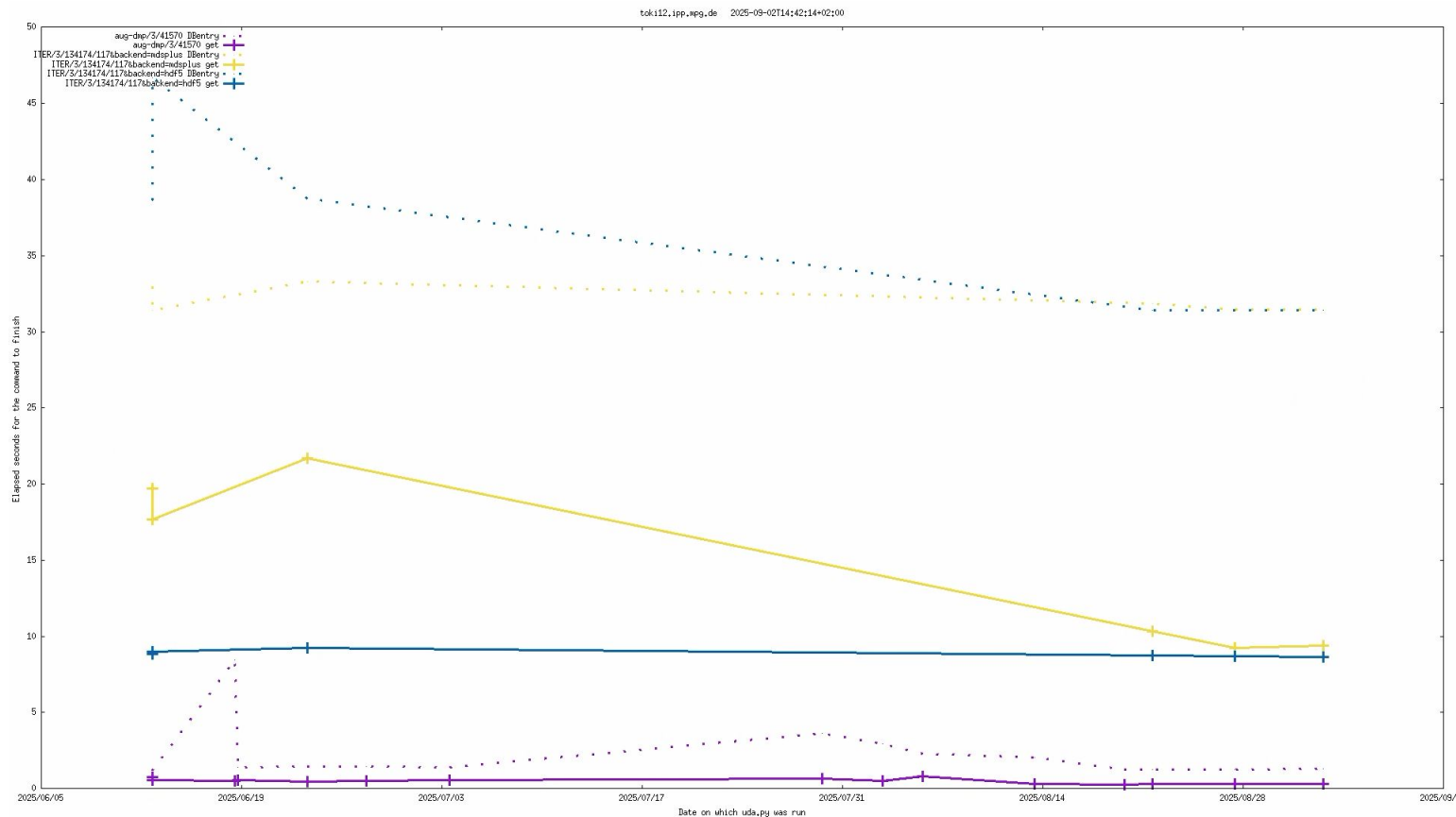# Data access times: run at ITER

Data access times: run at ITER

Data access times: run at IPP (horizon)

Data access times: run at IPP (horizon)

Data access times: run at IPP (TOK cluster)

Data access times: run at IPP (TOK cluster)