

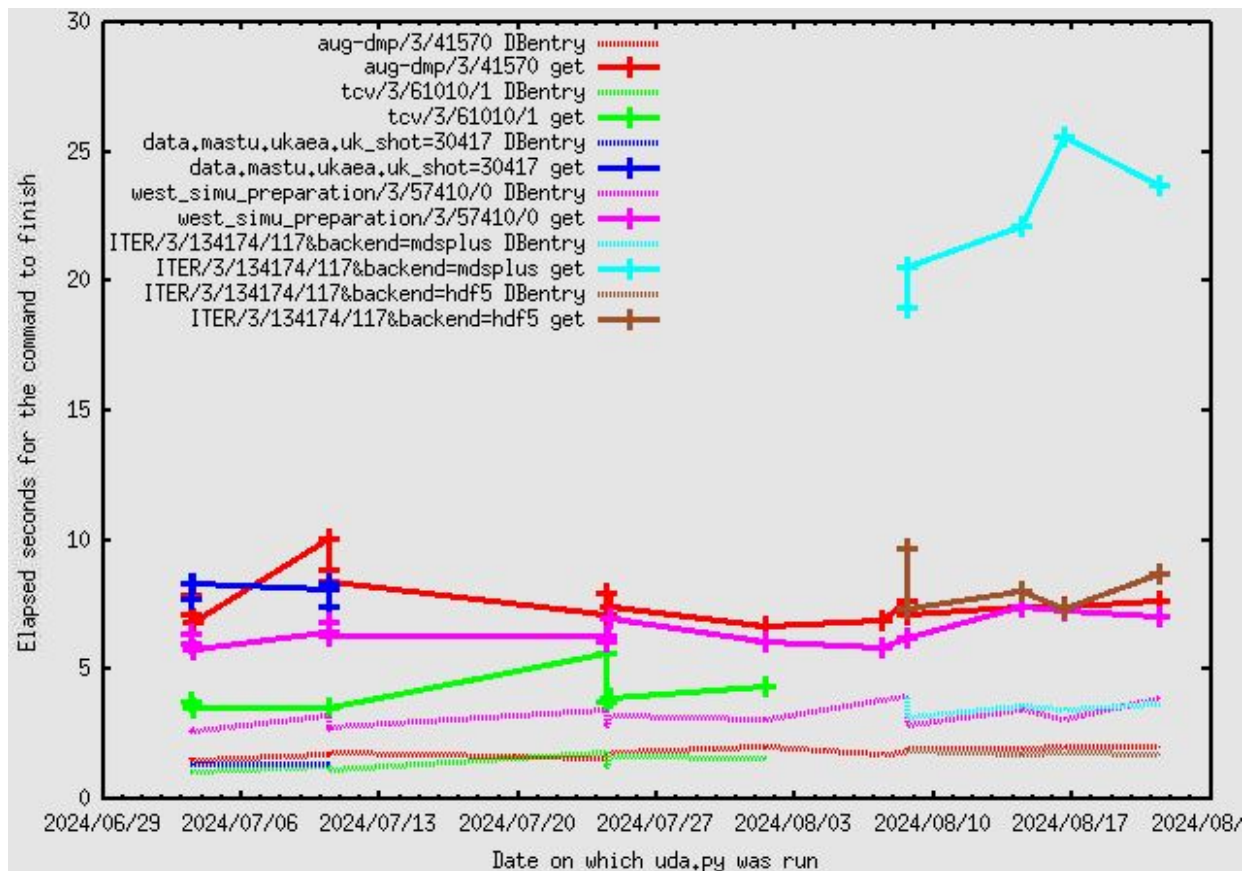
# DMP Implementation Status of IPP

2024-08-21

# EasyBuild

- Started looking at using EasyBuild to maintain an IMAS infrastructure at IPP
  - Significant time investment
- Two systems
  - Citrix virtual machines
    - Ubuntu 22.04.4 LTS
      - Seems to be well supported by EB
      - Firewall continues to give problems
  - TOK cluster
    - SUSE Linux Enterprise Server 15 SP4
      - Not that well supported by EB
      - No firewall issues
- In general, seem to be able to get FOSS to work on both systems
  - Still having some difficulties with Intel

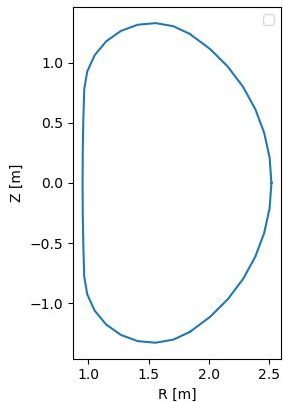
# uda.py data access times



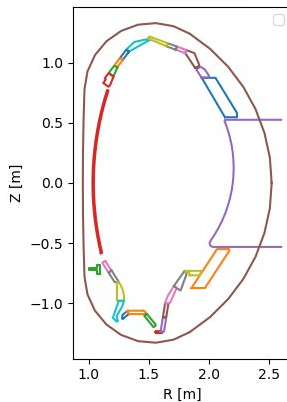
# Other

- Attended last ITER data mapping meeting
  - <https://confluence.iter.org/pages/viewpage.action?pageId=640752281>
  - Next meeting should show the new netcdf data storage option
    - Seems to be created by imaspy as a write once, read many option
    - I think it should give faster access since data will have been tensorized
    - Fixed issue that ITER was having trying to use the magnetics data from 17151
      - Wrong wall for them!

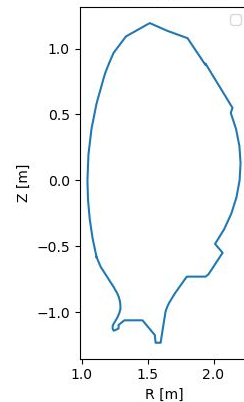
imas://uda.ipp.mpg.de:56565/uda?  
path=/root/public/imasdb/aug/3/17151/1&  
backend=hdf5



imas://uda.ipp.mpg.de:56565/uda?  
path=/root/public/imasdb/aug/3/17151/3&  
backend=hdf5



imas://uda.ipp.mpg.de:56565/uda?  
path=/root/public/imasdb/aug/3/17151/4&  
backend=hdf5



# Comparison of installation times

<b>Software</b>	<b>Citrix</b>	<b>TOK</b>
IMAS-AL-Cpp/5.3.0-foss-2023b-DD-3.42.0	3 mins 35 secs	8 mins 26 secs
IMAS-AL-Fortran/5.3.0-foss-2023b-DD-3.42.0	29 mins 4 secs	1 hour 8 mins 20 secs
IMAS-AL-Java/5.3.0-foss-2023b-DD-3.42.0	2 mins 35 secs	5 mins 30 secs
IMAS-AL-Matlab/5.3.0-foss-2023b-DD-3.42.0	13 mins 49 secs	55 mins 46 secs
IMAS-AL-Python/5.3.0-foss-2023b-DD-3.42.0	2 mins 11 secs	9 mins 6 secs