



MyHSA

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HERSCHEL
SPACE
OBSERVATORY

Different ways to retrieve Herschel data before HCSS 8.0



- Using the Herschel User Interface
 1. Retrieve a tar file from the archive
 2. Read observation into HIPE
 3. Save into a pool (Import Herchel Data to HIPE)

Too many steps

Duplication of files

Low performance of importing – High memory requirements

- Directly from HIPE
 1. `obs=getObservation(<obsid>,useHSA=True)`
 2. `saveObservation(<obsid>,poolName)`

Very low performance – High memory requirement

Data is only in pools

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MyHSA concept: already in HCSS 8.0



- A better integration of HSA access into HIPE
- Better performance in both: importing and downloading data
- More user-friendly import
- Minimal memory requirements for importing and downloading data
- Transparent use of either tar coming from the HSA or data in pools
- Avoid duplication of files

Like to have your own HSA in disk

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MyHSA Implementation for users



A single task for all data retrieval options

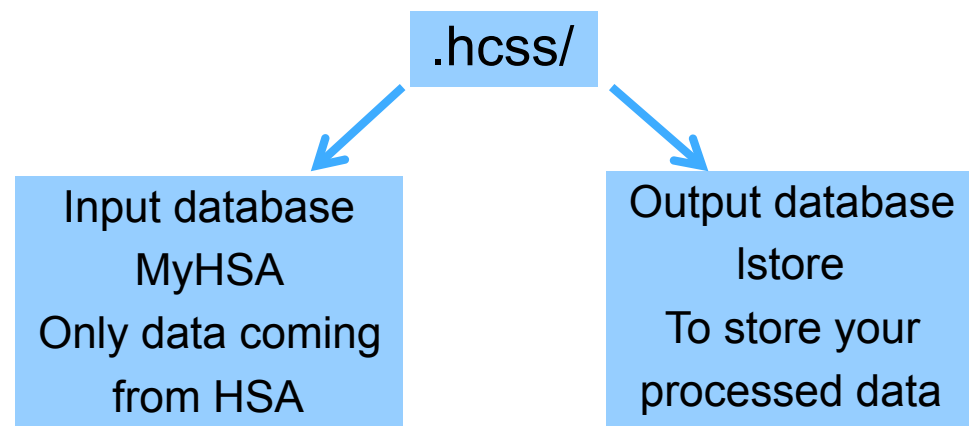
1. You have a tar file retrieved from the archive: **getObs**(<path>)

The observation is read into HIPE and “imported” simultaneously in background.

Import means that the data is indexed as in pools but the files are not duplicated

A directory called “MyHSA” is created under .hcss/ which constitute an input database.

MyHSA is a database which contains only references to all your data coming from HSA



MyHSA Implementation for users (cont)



2. Quick look of data or direct retrieval from the HSA (into MyHSA):

getObs(<obsid>, useHSA=True)

getObs(<obsid>, useHSA=True, save=True)

3. Recover data from MyHSA or Istore (pools) into HIPE:

getObs(<obsid>)

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MyHSA In HCSS 9.0



- We are solving some bugs to release it in HCSS 9.0
- The name of the task will be ***getObservation*** in HCSS 9.0

Try it in HCSS 8.0

You can help us to improve MyHSA!!!!

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