

# gb2\_ds\_rm with Rucio

BIIDCD-1175

BNL-UM Computing Meeting

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# Quick point...

- Thanks for your work, Cedric and Anil!

# gb2\_ds\_rm with Rucio

- Improvements for tool for next release:
  - (1.) Single-file Deletion (requested by Ueda-san)
  - (2a.) Empty-dataset Deletion
  - (2b.) Automatic Deletion of Dataset w/ only one Datablock

# (1.) Single-file Deletion (per Ueda-san)

```
$ gb2_ds_rm authGroups_test_1/sub00/ntuple_00000_job79527_00.root
```

```
LFN(s) to remove:
```

Dataset	Files
---------	-------

```
=====
/belle/user/justing/authGroups_test_1/sub00 1
```

```
Do you want to remove the following file(s):
```

```
Please type [Y] or [N]: Y
```

```
Will delete the file(s): ['/belle/user/justing/authGroups_test_1/sub00/ntuple_00000_job79527_00.root']
```

```
Printing output of categoriesLPNs: {'OK': True, 'Value': {'Unknown': [], 'ContainerOfDatasets': [], 'Dataset': [], 'File': ['/belle/user/justing/authGroups_test_1/sub00/ntuple_00000_job79527_00.root'], 'ContainerOfContainers': []}}
```

# (2a.) Empty-dataset Deletion

- With the new version of the tool, users have the option to delete individual datablocks, or datasets
- If a user deletes all of the datablocks in a dataset and then attempts to delete the dataset later, they will not be allowed

```
$ gb2_ds_rm BIIDCD-1175_test_1  
No datasets
```

- Allow for retroactive deletion of empty dataset

```
$ gb2_ds_rm gb2Tutorial_Dst2D0pi_D02k3pi
```

```
LFN(s) to remove:
```

Dataset	Files
---------	-------

```
=====  
/belle/user/justing/gb2Tutorial_Dst2D0pi_D02k3pi 0
```

```
The above dataset is empty!
```

```
Do you want to remove the empty dataset:
```

```
Please type [Y] or [N]: Y
```

```
{'OK': True, 'Value': {'Successful': {'/belle/user/justing/gb2Tutorial_Dst2D0pi_D02k3pi': {'Files': {}, 'SubDirs': {}, 'Links': {}}}, 'Failed': {}}}
```

```
Printing output of toBeRemoved: ['/belle/user/justing/gb2Tutorial_Dst2D0pi_D02k3pi']
```

```
Printing output of categoriesLPNs: {'OK': True, 'Value': {'Unknown': ['/belle/user/justing/gb2Tutorial_Dst2D0pi_D02k3pi'],  
'ContainerOfDatasets': ['/belle/user/justing/gb2Tutorial_Dst2D0pi_D02k3pi'], 'Dataset': [], 'File': [], 'ContainerOfContainers': []}}
```

# (2b.) Automatic Deletion of Dataset w/ Only One Datablock

- If a dataset contains one datablock, delete the dataset along with the datablock
- I prefer this option:
  - Users may not remember to go back and delete empty datasets (automatically remove both to avoid extra work for DC ops)

```
$ gb2_ds_rm authGroups_test_1/sub00
```

```
LFN(s) to remove:
```

Dataset	Files
---------	-------

```
=====
/belle/user/justing/authGroups_test_1/sub00 7
```

```
Do you want to remove the following file(s):
```

```
Please type [Y] or [N]: Y
```

```
Printing listDirResult: {'OK': True, 'Value': {'Successful': {'/belle/user/justing/authGroups_test_1': {'Files': {}, 'SubDirs': {'/belle/user/justing/authGroups_test_1/sub00': {'Mode': 509}}}, 'Links': {}}, 'Failed': {}}}
```

```
Printing SubDirs for: /belle/user/justing/authGroups_test_1
{'/belle/user/justing/authGroups_test_1/sub00': {'Mode': 509}}
```

```
Printing output of toBeRemoved: ['/belle/user/justing/authGroups_test_1/sub00', '/belle/user/justing/authGroups_test_1']
```

```
Printing output of categoriesLPNs: {'OK': True, 'Value': {'Unknown': [], 'ContainerOfDatasets': ['/belle/user/justing/authGroups_test_1'], 'Dataset': ['/belle/user/justing/authGroups_test_1/sub00'], 'File': [], 'ContainerOfContainers': []}}
```