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Steve's Notes

DQ2 Data Location & Retrieval

Athena | VP1 | DQ2 | Wire Sag | UM Cluster

Find some data with DQ2 at CERN

See more detailed instructions at [DQ2ClientsHowTo](#) . The DQ2 Dataset Browser provides a web interface [↗](#). James Catmore's wiki on finding data: [DataPreparationReprocessing](#) .

1. Set up the environmental variables.

```
source /afs/cern.ch/atlas/offline/external/GRID/ddm/DQ2Clients/setup.sh
```

2. Initialize the ATLAS VO proxy.

```
voms-proxy-init -voms atlas
```

3. Search for some Zmumu data

```
dq2-ls mc12.*Zmumu*  
dq2-ls mc12.*Zmumu*RDO*  
dq2-ls mc12.*Zmumu*AOD*  
dq2-ls -f mc12.005145.PythiaZmumu.genfast.AOD.v12000702
```

4. Retrieve a dataset from the grid to local directory

```
cd /tmp/myusername  
dq2-get mc12.005145.PythiaZmumu.genfast.AOD.v12000702  
dq2-get data08_cosmag.00091639.physics_RPCwBeam.recon.ESD.o4_f71_T1224030946
```

5. Retrieve a file from the grid to local directory

```
cd /tmp/myusername  
dq2-get -f valid1.005145.PythiaZmumu.digit.RDO.e322_s483 mc12.005145.PythiaZmumu.genfast.AOD.v12000702
```

Using AMI to Get Dataset Information

The AMI browser can provide important information about various physics data sets, including what geometry was used in production.

1. Find the geometry used for **valid1.005145.PythiaZmumu.digit.RDO.e322_s483**
 - ◆ Open [AMI](#) [↗](#) in a browser.
 - ◆ Enter `valid1.005145.PythiaZmumu.digit.RDO.e322_s483` in the top window.
 - ◆ Click on "Search Datasets"
 - ◆ Click on "Details"

Some Castor Commands

If data has been retrieved to castor, files can be manipulated with a few simple commands. See [WorkBookCastor](#) for a listing. Here are some examples:

1. List a directory

```
rfdir /castor/cern.ch/user/g/goldfarb/Analysis/Zmumu
```

2. Copy a file to/from/within castor

```
rfcp /tmp/myusername/mc12.005145.PythiaZmumu.genfast.AOD.v12000702/valid1.005145.Pyt  
rfcp /castor/cern.ch/user/g/goldfarb/Analysis/Zmumu/valid1.005145.PythiaZmumu.digit.
```

3. Move a file within castor

```
rfrename rfcp /castor/cern.ch/user/g/goldfarb/Analysis/Zmumu/ZmumuPythiaEndCapOnlySi
```

4. Remove a file from castor

```
rfrm /castor/cern.ch/user/g/goldfarb/Analysis/Zmumu/StevesFavoriteFile.pool.root
```

Major updates:

-- StevenGoldfarb - 05 Sep 2006 -- StevenGoldfarb - 29 Jan 2009 (made current) -- StevenGoldfarb - 12 May 2009 (updated dq2 usage)

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