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Dream Data Analysis

Run information

Logbooks

- **Logbook July 2011 (1st part)** LOG_JULY_2011_1part.pdf
- **Logbook July 2011 (2nd part)** logbook_July_2011_part2.pdf
- **Logbook June 2011**
https://atlsrver.pv.infn.it/franchin/DREAM/LOGBOOK/logbook_TB_June2011.pdf
- **Logbook October 2010**
https://atlsrver.pv.infn.it/franchin/DREAM/LOGBOOK/Logbook_Dream_October_2010.pdf
- **Logbook July 2010**
https://atlsrver.pv.infn.it/franchin/DREAM/LOGBOOK/Logbook_Dream_July_2010.pdf

Run numbers

- 2009 : from 0067 to 1543
- 2010 Jun: from 1554 to 2875
- 2010 Oct: from 3048 to 4303
- 2011 Jun: from 4335 to 4693
- 2011 Jul: from 4685 to run list file RunList.pdf

Ntuple Structure:

- July2011
- November2011

Data Storage

NFS Mount

* Paranters in /etc/fstab for NFS mount of dreamix2:

```
dreamix2.cern.ch:/nfs/data /mnt/dreamix2 nfs rw,noatime,exec,dev,suid,bg,soft,nolock,nfs
```

Setup

- The storage h/w is `pcdream:/mnt/storage`
 - It is a 3 TB external disk connected to `pcdreamdaq2`
- The storage element at TTU
 - Used to mirror, via GlobusOnline, the `pcdream:/mnt/storage/` disk
 - ~Daily TTU mirror procedure: Note: REQUIRES the TTU endpoint to be activated by Michele, Sehwook or Alan by grid proxy ahead of time to work
 - ◆ Login to the dreamtest account on `pcdreamdaq2`, or to any other account that has ssh keys stored in the Globus dreamdaq identity store
 - ◆ Execute: `ssh -t dreamdaq@cliNOSPAMPLEASE.globusonline.org scp -r -s 0 -v pcdreamdaq2personal:storage/ TTU-Sigmorgh-DREAM:/lustre/hep/osg/dream/2015/`

- The script `~/bin/ttuls` from the `dreamtest` directory (on `pcdreamdaq2`) lists files hosted in the storage element at TTU. The `bin` area is in the path for the `dreamtext` account, so the command `ttuls` should work without prefix.
e.g.: `~ttuls data` or `ttuls data/datafile_run100*.dat` for a limited range, etc.
- How to retrieve data by anyone in DREAM from the storage element at TTU: .see [GridHelp](#) / [GridSetup](#) / [GlobusOnline](#) / [DataTransfer](#) pages

Where are the data files?

1. In `pcdreamdaq2:~dreamtest/storage/`
2. In a disk at TTU. Use the `ttuls data` script to lists them (How to copy ntuple on your PC)

Where are the pedestal files?

1. In `pcdream:/mnt/storage/pedestal`
2. In a disk at TTU. Use the `ttuls pedestal` script to lists them (How to copy ntuple on your PC)

Where are the ntuple files?

1. In `pcdreamdaq2:/mnt/storage/ntuple`
2. In a disk at TTU. Use the `ttuls ntuple` script to lists them (How to copy ntuple on your PC)

```
[pcdream] /home/dreamtest/working/ntuple > DRS 32 channels  
[pcdream] /home/dreamtest/working/ntuple/silvia > DRS read with 16 channels
```

Example macros

A few example macro to analyze the DREAM ntuples.

Useful information to do analysis:

- How to connect to TTU via Grid
- How to register at the Dream VO
- How to produce Ntuple at cern
- How to produce Ntuple at TTU
- How to copy ntuple on your PC

AlanSill - 2015-11-01

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