

Table of Contents

Running ATLAS software at Edinburgh.....	1
Using DQ2, ROOT, Ganga, Panda and Athena Locally.....	1
Accessing files from ECDF_LOCALGROUPDISK locally.....	1
Listing datasets on ECDF.....	2
Running Jobs on ECDF / Eddie.....	2
Suggestions/Requests.....	2
Current task List.....	2
Resources.....	3

Runni ng ATLAS sof t ware at Edi nbur gh

This page describes the steps needed to access and run ATLAS software from all local desktops in the Edinburgh group.

Usi ng DQ2, ROOT, Ganga, Panda and At hena Local l y.

These packages can be used through ATLASLocalRootBase, this is separate to the particular releases installed below. To use these:

```
export ATLAS_LOCAL_ROOT_BASE=/Disk/speyside4/atlas/ddm/ATLASLocalRootBase  
export ATLAS_LOCAL_ROOT_BASE=/cvmfs/atlas.cern.ch/repo/ATLASLocalRootBase  
source ${ATLAS_LOCAL_ROOT_BASE}/user/atlasLocalSetup.sh
```

and follow the instructions given on screen. Or at <https://twiki.atlas-canada.ca/bin/view/AtlasCanada/ATLASLocalRootBase> [↗]
The former location on speyside is not up to date and the recommendation is to use the CVMFS setup.

For example: For DQ2 (to download data)

```
localSetupDQ2Client  
voms-proxy-init --voms atlas  
dq2-get [DATASET]
```

To use standalone root (to run on d3pds for example):

```
localSetupROOT  
root
```

To run atlas software:

```
asetup -r 15.6.12
```

To use a nightly (you may need to check for the correct path

```
asetup --releasesarea=/Disk/speyside4/atlas/SW/nightlies/16.4.X rel_3 here
```

D3PDs can be stored in /Disk/speyside7/Grid/grid-files (not backed up)

Accessi ng f i l e s f r o m ECDF_LOCALGROUPDI SK Local l y

See also https://www.gridpp.ac.uk/wiki/RFIO_Local_Access [↗]

```
TFile::Open("root://srm.glite.ecdf.ed.ac.uk//dpm... ")
```

e.g.

```
TFile::Open("root://srm.glite.ecdf.ed.ac.uk//dpm/ecdf.ed.ac.uk/home/atlas/atlaslocalgroupdisk/mc12_8TeV/NTUP_HSG2/e1622_s1581_s1582.root")
```

This is slow for interactive use, but should be about as fast as having the files locally if making use of `TTreeCache` in your code. Using `TTree::Draw()` seems to be extremely fast.

Alternatively, it might be faster to copy the file locally. This can be done with `rfcop`:

```
export DPM_HOST=srm.glite.ecdf.ed.ac.uk
```

```
export DPNS_HOST=srm.glite.ecdf.ed.ac.uk
```

```
rfcop rfile:///dpm/ecdf.ed.ac.uk/home/atlas/atlaslocalgroupdisk/mc12_8TeV/NTUP_HSG2/e1622_s1581_s1582.root
```

Listing datasets on ECDF

First, to generate a list of datasets, do e.g.:

```
dq2-list-dataset-site UKI-SCOTGRID-ECDF_LOCALGROUPDISK -n mc12*HSG2*
```

where the last parameter is a search string for your datasets. Then, given a dataset name, to generate a list of the paths to the files:

```
dq2-ls -f -p -L UKI-SCOTGRID-ECDF_LOCALGROUPDISK mc12_8TeV.167892.PowhegPythia8_AU2CT10_ggH125_ZZ.root
```

These can be accessed locally as described above.

Running Jobs on ECDF / Eddie

- Useful twiki page from the LHCb group
- Users' manual

Suggestions/ Requests

This is an ongoing task so please let me know if everything (or anything!) is working.

Current task List

- Interactive validation of local software
- SL5 32-bit/64-bit issues
- Documentation on local user setup, testing interactive job
- Check for kit validation for SL5
- Local cron script tests to retrieve nightlies
- Determine best mode of file transfer (rsync or pacman package diff)
- Associate nightly cron script to central service
- Request software area be visible from condor
- Test run of batch system
- Add more development nightlies (on request)
- Autoinstall method for new official releases
- Possible data migration

- Permanent mount point for /Disk/speyside4

Resour ces

- [ATLAS Projects cache directory](#)
- [ATLAS project release status](#)
- [Installing ATLAS software](#)
- [Setting up your ATLAS account](#)
- [CMF Home](#)
- [Nightly build summary](#)
- [NICOS general information](#)
- [NICOS summary](#)
- [SL5 migration issues](#)
- [Physics & Astronomy Computing Services webpages](#)

-- AndrewWashbrook - 2009-09-30

This topic: [Min](#) > [AtlasEdinburghLocal Software](#)

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