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# Manchester ATLAS Group

# Introduction

This page is used to store information relevant to the Manchester ATLAS group.

## Documentation

### ATLAS Experiment:

- ATLAS Collaboration, *The ATLAS Experiment at the CERN Large Hadron Collider* , 2008 JINST 3 S08003 [↗](#).
  - ◆ Warning: Large file!
  - ◆ Inner Detector (ID), e.g. 4.1 (4.2, 4.3 ), 10.2.
  - ◆ Trigger, e.g. 8.1, 8.2 (especially first section), 8.3
- ATLAS Collaboration, *Expected Performance of the ATLAS Experiment - Detector, Trigger and Physics* , CERN-OPEN-2008-020, arXiv:0901.0512v2 [↗](#) [hep-ex].
  - ◆ Warning: Large file!
  - ◆ This is the so-called CSC book

### ATLAS High Level Trigger (HLT = L2 + EF):

- *The High-Level-Trigger Steering of the ATLAS experiment* , IEEE NPSS 2007, com-daq2007-020 [↗](#)
- *The ATLAS High Level Trigger Steering* , CHEP07, daq-conf-2007-026 [↗](#)
- Chapter, *Trigger - HLT Track Reconstruction Performance* , in the CSC book above.

### ATLAS Tracking:

- *Concepts, Design and Implementation of the ATLAS new Tracking (NEWT)* , ATL-SOFT-PUB-2007-007 [↗](#), December 2007.
- *Single Track Performance of the Inner Detector New Track Reconstruction (NEWT)* , ATL-INDET-PUB-2008-002 [↗](#), March 2007.

### Misc:

- Glossary [↗](#) A useful glossary of particle physics terms.

# Computing

In this section there are various useful notes on ATLAS computing at Manchester.

- [ATLAS CVS web viewer](#)
- [LXR](#), Searching the ATLAS SW repository.
- [Manchester Tier 2 twiki](#)
- [Atlas UK Computing Software Official Page](#)
- [Manchester Elog](#)
- [Computing resources at CERN](#)

## ATLAS Software on Linux8

Various ATLAS release are installed on the linux8 cluster at Manchester, for use instructions, see [ManAthenaInstallationsSLC5](#). **new** CVMFS can now be used to get the ATLAS software on tony - will be available on all machines soon - see [ManAtlasCVMFS](#).

## CERN cvs & svn Access on Linux8

General instructions for cern cvs access are [here](#) and for svn access are [here](#). On linux8 you can use kerberos authentication to gain access to cvs or svn via ssh, simply do the following, replacing username with your username on lxplus:

```
kinit --no-afslog username@CERN.CH
```

The standard checkout commands should now work without a prompt for your password. Note that if your username on the linux8 cluster is different to your cern username, you will have to change the SVNROOT variable:

```
export SVNROOT="svn+ssh://username@svn.cern.ch/repos/atlasoff"
```

where username should be your cern username. This needs to be done after setting up the atlas release (since setting up the release changes this variable).

Manchester has a group area within the ATLAS svn repository - you can see it's contents [here](#).

If you need to access the manchester cvs repository at cern you need to do:

```
export CVSROOT=:gserver:isscvs.cern.ch:/local/repos/atman
```

If your cern username is different to you linux8 one, then you will need:

```
export CVSROOT=:gserver:username@isscvs.cern.ch:/local/repos/atman
```

## Ganga & dq2

The latest version of ganga is installed on all the linux8 nodes (in /opt/ganga/install) & should already be in your PATH. To enable the atlas specific extensions, you just need to do:

```
export GANGA_CONFIG_PATH=/afs/hep.man.ac.uk/g/atlas/GangaConfig/GangaAtlas-v5.ini:GangaAtlas/Atla
```

before running ganga. It is also possible to use the cern installation, to set it up do:

```
source /afs/cern.ch/sw/ganga/install/etc/setup-atlas.sh
```

To use dq2 it is usually best to use the up-to-date installation at cern. To set up dq2 do:

```
source /afs/cern.ch/atlas/offline/external/GRID/ddm/DQ2Clients/setup.sh py25
```

It is best to tell dq2 that you are in the UK, not cern, by doing:

```
export DQ2_LOCAL_SITE_ID=UKI-NORTHGRID-MAN-HEP_LOCALGROUPDISK
```

You'll also need to get a proxy for your grid certificate like:

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

## Useful Utilities

See this page for a list of useful bits of software & scripts.

## Mailing lists

**Some useful mailing lists:**

- Atlas distributed analysis help - [hn-atlas-dist-analysis-help@cern.ch](mailto:hn-atlas-dist-analysis-help@cern.ch)
- Atlas UK computing users - [atlas-uk-comp-users@cern.ch](mailto:atlas-uk-comp-users@cern.ch)
- UK grid users - [GRIDPP-USERS@JISMAIL.AC.UK](mailto:GRIDPP-USERS@JISMAIL.AC.UK)
- UK data replication requests - [atlas-uk-data-requests@cern.ch](mailto:atlas-uk-data-requests@cern.ch)

# Event Filter Tracking

## Links

### ATLAS Twikis:

- ID HLT (L2 + EF) Twiki
- ID EF Tracking Algorithms
- HLT Tracking Data Quality Monitoring

### ATLAS Meetings:

- Inner Detector Trigger [↗](#)
- Inner Detector Software Weekly [↗](#)

## Activity Sub-Pages

- EFID Validation Page
- EFID Data Studies
- MC Performance Page
- Cosmics Analysis
- Muon EF Cosmic Analysis
- Muon EF Timing Studies
- Muon EF Early Data Studies
- ManMuonEFCosmicsUnPro
- MuonEFTIMEOUTUnPro
- Muon EF Isolation Commissioning

# Physics Analysis

- ATLAS UK analysis groups
- The Sframe Analysis package home page
- ManPhysBoostedTops
- ManTree
- ManTreeOld
- SFrameD3PD
- TThMEAnalysis

-- MarkOwen - 21 Sep 2009 -- SteveMarsden - 03-Jul-2012 -- MarkOwen - 13 Dec 2013

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