# The Lofar Login Environment (LLE)

This page describes the standard login environment for new users on the LOFAR cluster nodes. Existing accounts can be easily modified; see below for a manual to do this.

### **General**

The Lofar Login Environment sets a few things for your account, and allows you to easily initialise often used packages and tools at login time. To this purpose we provide a few simple standardized login-scripts.

### Use (t)csh or bash!

To be able to use the LLE environment you must either use a (t)csh or bash login shell. We do not support scripts for any other shells.

### What to do when you get an account

### (t)csh

If you have chosen for the (t)csh shell, you do as follows:

- Log in and go to your (empty) \$H0ME directory
- > ln -s /opt/login/cshrc .cshrc (Note: on lioffen you should refer to /app/login/cshrc!)
- Log out and login again; you should see a welcome message.

#### bash

If you have chosen for the bash shell, you do as follows:

- Log in and go to your (empty) \$H0ME directory
- > ln -s /opt/login/bashrc .bashrc (Note: on lioffen you should refer to /app/login/cshrc!)
- Log out and login again; you should see a welcome message.

### How to transform existing accounts?

To use the LLE in an existing account, rename your existing .cshrc or .bashrc in your \$HOME and follow the instructions given above.

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Make sure that possibly existing files \$HOME/.login, \$HOME/.setenv and \$HOME/.alias that you still want to use at login time are renamed to \$HOME/.mylogin, \$HOME/.mysetenv, \$HOME/.myalias.

### The LLE scripts

Some of the details are presented here.

### What is \$APS\_LOCAL?

The root directory for the scripts is provided in environment variable \$APS\_LOCAL, whose value is set in the .cshrc and .bashrc scripts. The actual value depends on your location:

New CEP processing cluster: /opt

• lioffen and its nodes: /app

### **Login scripts**

In directory \${APS\_LOCAL}/login are a number of default login scripts. The scripts ending with .bash are for the bash shell, the others for the (t)csh shell:

- cshrc → sets APS\_LOCAL and calls the other scripts
- login → Displays welcome message; no settings
- setenv → adds some items to \$PATH, sets your prompt, etc.
- alias → some default aliases to make life easy
- setpackages → script to define packages to initialize at login-time

Users should **NEVER** modify these default scripts at this location!

### Personal command aliasses: .myalias

Personal command aliases can be added to a file \$HOME/.myalias. When this file exists, the .cshrc or .bashrc script will read this file after reading the default \${APS LOCAL}/login/alias(.bash).

### Personal environment settings: .mysetenv

Personal extensions to \$PATH, personal environment variables, personal prompt setting, or overloaded existing environment variables should be done in a file \$HOME/.mysetenv. If this file exists, the cshrc or bashrc script will read this file.

### Package initialisation: .mypackages

To initialize the use of installed packages on your system you must create a file \$HOME/.mypackages. If this file exists, it is used by the LLE script setpackages.

In the directory \${APS\_LOCAL}/scripts you will find available package initialization scripts, named like do<package> (e.g., doCasacore, doPyrap). Whenever you add a package to the file \$HOME/.mypackages, the associated script in \$APS\_LOCAL/scripts will be source'd.

The file \$HOME/.mypackages can look like this example:

Casacore doPyrap

The packages can be on one line or on multiple lines. Also note the use of <package> and do<package>; both are accepted. If an initialization script cannot be found, it will be reported to the user.

#### How to add a personal package

Apart from the systemwide do<package> files provided in directory \$APS\_LOCAL/scripts, users can add their personal do<package> files in their \$HOME and have these run at login time. If there is a do<package> file both in \$HOME and in \$APS\_LOCAL/scripts, the version in \$HOME has preference and will be executed. This can be used to test a different version of a package, etc... To add a new, personal, package, act as follows:

- Install the package
- Create a \$H0ME/do<package> initialization script (e.g., adding the installation directory to your \$PATH)
- Add <package> to the list of packages in file \$HOME/.mypackages

## Starting X environment

To start up an X environment you have to make sure that

• The files \$HOME/.xinitrc and \$HOME/.xsession are removed

Determine the colordepth that you need (8, 16, 24 bit display) and type:

startx -- :1 -depth <colordepth>

This should start your X environment at the proper colordepth. This will create an additional X Server next to the one you are already running. You can access this with Alt-F8 or Cntl-Alt-F8. The F7 variant will give you back your normal X.

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## Help!

If you need help, or have questions, or want to give any other comments, contact Arno Schoenmakers or Adriaan Renting.

New do<xxxx>-files can be added at any time if you have a new package that should be available systemwide. Contact Arno Schoenmakers or Adriaan Renting in this case.

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