Basic instruction to setup LArSoft in neutplatform cluster

Set up UPS:

source /cvmfs/dune.opensciencegrid.org/products/dune/setup_dune.sh

source /cvmfs/fermilab.opensciencegrid.org/products/larsoft/setups

Set up the basic tools and environment variables that are needed

setup mrb

export MRB_PROJECT=larsoft

To list the available versions of the larsoft software, run:

ups list –aK+ larsoft

Set up the latest larsoft release:

setup larsoft vxx_yy_zz –q e10:prof

next, somewhere under directory **/mnt/nas00/users/youruser/** create a directory where for code development, where you will be able to download, modify and build sources of your selected packages:

mkdir larsoft_mydev

cd larsoft_mydev

inside the new directory:

mrb newDev

(or **mrb newDev –p** if the development directory already exists and you are updating to the newer release)

this creates a new localProducts_XXXX directory

source localProducts_XXXX/setup

cd srcs

Pull dunetpc and larreco packages:

mrb g dunetpc

mrb g larreco

To build your code:

cd $MRB_BUILDDIR

if this is your first time building with these local packages, do:

mrbsetenv

mrb i –j4

mrbslp

Once you are stable and the code you are working on is well defined, and you are not git pull'ing new repositories, the development cycle can be shortened.

You can replace:

mrbsetenv, **mrb i –j4**, **mrbslp**

With:

make install –j4

Texts and instructions were based on the web pages:

https://cdcvs.fnal.gov/redmine/projects/dunetpc/wiki/_Tutorial_ - please refer to this if you want to have more extend description.

https://twiki.cern.ch/twiki/bin/view/CENF/LArSoftNeutrinoCluster