

ECCE Simulation Workshop April 2nd, 2021

Fun4All

A recipe to install and run the singularity container on your desktop/laptop which gives you a complete development environment (with or without cvmfs) can be found at:

<https://github.com/sPHENIX-Collaboration/Singularity>

Once this is up and running one should be able to run any of the tutorials at:

<https://github.com/sPHENIX-Collaboration/tutorials>

The analysis tutorial can be found at (second talk):

<https://indico.bnl.gov/event/7254/>

The video gives a walkthrough on walk through of the steps to build a package, add it to the default Fun4Allmacro, and run an example sPHENIX simulation.

EIC Smear

The barebones instructions for the set up for the generators and eic-smear (tested with Ubuntu 18.04) are as follows:

```
sudo apt-get install gcc perl make
# install cvmfs
# https://cernvm.cern.ch/portal/filesystem/quickstart
sudo apt-get install lsb-release
wget https://ecsft.cern.ch/dist/cvmfs/cvmfs-release/cvmfs-release-latest\_all.deb
sudo dpkg -i cvmfs-release-latest_all.deb
rm -f cvmfs-release-latest_all.deb
sudo apt-get update
sudo apt-get install cvmfs cvmfs-config-default
sudo cvmfs_config setup
sudo emacs /etc/cvmfs/default.local
# adapt to include
CVMFS_REPOSITORIES=eic.opensciencegrid.org[,others]
CVMFS_HTTP_PROXY=DIRECT
cvmfs_config probe

# singularity
sudo apt install singularity singularity-container
singularity shell --writable -B /cvmfs:/cvmfs
/cvmfs/eic.opensciencegrid.org/singularity/rhic\_sl7\_ext

# and setup
setenv dev
source /cvmfs/eic.opensciencegrid.org/x8664\_sl7/MCEG/releases/etc/eic\_bash.sh
```