

Table of Contents

Setup the environment.....	2
Install pxar.....	3
Install eudaq.....	4
Install tele-scope.....	5
Install GBL	

Setup the environment

```
nano .profile
#add
/bin/zsh

#create your directory
mkdir TB_pp1
cd TB_pp1

#because you need this steps every time put it in a script..

nano setupTS.sh

#set the root version
source /afs/cern.ch/sw/lcg/external/gcc/4.7.2/x86_64-slc6-gcc47-opt/setup.sh
cd /afs/cern.ch/sw/lcg/app/releases/ROOT/5.34.18/x86_64-slc5-gcc46-opt/root
source bin/thisroot.sh
cd -

#set the compiler
export PATH=/cvmfs/cms.cern.ch/slc6_amd64_gcc480/external/gcc/4.8.0/bin:$PATH
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/cvmfs/cms.cern.ch/slc6_amd64_gcc480/external/gcc/4.8.0/lib64
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/cvmfs/cms.cern.ch/slc6_amd64_gcc480/external/gcc/4.8.0/lib

source setupTS.sh
```

Install pxar

```
git clone https://github.com/psi46/pxar.git
cd pxar
mkdir build
cd build
cmake -DBUILD_dtbemulator=ON -DBUILD_pxarui=OFF ..
make install
```

Install eudaq

```
export PXARPATH=/your_path/TB_pp1/pxar

cd /your_path/TB_pp1/

git clone https://github.com/eudaq/eudaq.git
cd eudaq
git checkout tags/v1.5.1
cd build
cmake -DBUILD_cmspixel=ON ..
make install
```

Install tele-scope

```
cd /your_path/TB_pp1/  
git clone https://github.com/pitzl/tele-scope.git  
cd tele-scope
```

// adjust the makefile according to your setup

change /home/pitzl/eudaq everywhere to your location of eudaq

Step 0 :

prepare a geo.dat file with the telescope and DUT/REF planes

(see one of the examples)

set a symbolic link to the directory with the eudaq raw data

```
ln -s /data/eudaq/data data
```

(raw data files are called run020833.raw)

Step 1 : telescope triplet alignment

make tele

```
./tele -g geo.dat 20833
```

```
(reads data/run020833.raw  
(writes align_20833.dat and hot_20833.dat)  
iterate at least once (re-run)  
creates tele_20833.root
```

#check whether you need more runs of tele.. the driplet and triplet need to be aligned..you cannot do too many runs

#check your root version make sure its the right one

Install GBL

for quad.cc for modules, you need GBL and also export the library path

```
=svn co https://svnsrv.desy.de/desy/GeneralBrokenLines/=
```

```
cd GeneralBrokenLines
```

```
cd trunk
```

```
cd cpp
```

```
mkdir build
```

```
cd build
```

```
cmake .. emacs CMakeCache.txt
```

```
CMAKE_CXX_FLAGS:STRING=-std=c++11
```

```
make
```

```
make install
```

```
export GBL=/home/YOURID/GeneralBrokenLines/trunk/cpp
```

This topic: [Sandbox](#) > [CarolineNiemeyerSandbox](#)

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