<u>Software for PM testing -Installation Procedure</u>
<u>"In Ubuntu"</u>

1. Download package via command on terminal

svn co svn+ssh://USERNAME@svn.cern.ch/reps/cmshcos/trunk/hcalUHTR
(Note : One need an ACTIVE CERN ACCOUNT AND PASSWORD TO DOWNLOAD THIS)

2. go to hcalUHTR/tool/moduleCheckSUB20/

3. install via **./install.sh -i**

facing Erro1
****************************Screen 1***************************
g++ -c uHTR_PowerMezz_Test.cpp -o uHTR_PowerMezz_Test.o -O3 -Wall -I.
-I/home/kavita/hcalUHTR/tool/moduleCheckSUB20/libusb-1.0.9//include/libusb-1.0/
-I/home/kavita/hcalUHTR/tool/moduleCheckSUB20/SUB-20-snap-110319//lib -g -DURPI
In file included from uHTRMezzInterface.h:5:0,
         from uHTRPowerMezzInterface.h:4,
         from uHTR_PowerMezz_Test.cpp:9:
comInterface.h:43:33: **fatal error: gnublin-api/gnublin.h:** No such file or directory
compilation terminated.
make: *** [uHTR_PowerMezz_Test.o] Error 1
!!!!!!! INSTALL FAILED !!!!!!!

|==================================|
| run the following once per terminal |
| "source usblibcfg.sh" |
|==================================|

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Error says **gnublin-api/nublin.h is missing**

4. Steps to resolve the error
1. **go to the link**
   http://gnublin.embedded-projects.net/downloads/

2. dowunload->**source** from API/Tools
3. **extract gnu**blin-api-master.zip
4. copy the required files: gnublin.h and gnublin.cpp
5. go inside the folder /home/user/hcalUHTR/tool/moduleCheckSUB20
6. make a new folder named "gnublin-api"
7. paste those files from step 4 into the folder :gnublin-api"
8. then install via command ./install.sh -i in the folder
   /home/user/hcalUHTR/tool/moduleCheckSUB20
9. will face the **error2**

********************************Screen 2************************

g++ -c uHTR_PowerMezz_Test.cpp -o uHTR_PowerMezz_Test.o -O3 -Wall -I.

-I/home/kavita/hcalUHTR/tool/moduleCheckSUB20/libusb-1.0.9//include/libusb-1.0/
-I/home/kavita/hcalUHTR/tool/moduleCheckSUB20/SUB-20-snap-110319//lib -g -DURPI
uHTR_PowerMezz_Test.cpp:12:28: **fatal error: boost/thread.hpp: No such file or directory compilation terminated.**
make: *** [uHTR_PowerMezz_Test.o] Error 1
!!!!!!! INSTALL FAILED !!!!!!!

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|==================================|
| run the following once per terminal |
| "source usblibcfg.sh"            |
|==================================|
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Error says lib boost is missing, **need to install libboost1.48-all-dev**

5. **steps to resolve error2:**
   1. go to terminal and type "sudo apt-get install libboost1.48-all-dev "
   2.again run ./install -i in the same folder

You will see successfully compiled screen
(Screen 3)*****************
    g++ -c comInterface.cpp -o comInterface.o -O3 -Wall -I.
    -I/home/kavita/hcalUHTR/tool/moduleCheckSUB20/libusb-1.0.9//include/libusb-1.0/
    -I/home/kavita/hcalUHTR/tool/moduleCheckSUB20/SUB-20-snap-110319//lib -g -DURPI
    g++ -c -o gnublin.o gnublin-api/gnublin.cpp
    gcc -O2 -I. uHTR_PowerMezz_Test.o uHTRMezzInterface.o uHTRPowerMezzInterface.o
    uHTRMezzanines.o comInterface.o gnublin.o -lboost_thread -lstdc++ -lm -o
    uHTR_PowerMezz_Test.exe

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    |==================================|
    | run the following once per terminal |
    | "source usblibcfg.sh"            |
    |==================================|
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