## Subject: Re: CMake Problem Thread Posted by Florian Nebel on Wed, 01 Aug 2007 08:25:20 GMT

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Hi,

```
yes in deed this is my private could which I am currently developing. I located it in the recotask/demo directory. The corresponding CMakeList.txt file reads as follows:
```

```
# Create a library called "" which includes the source files given in
# the array.
# The extension is already found. Any number of sources could be listed here.
set(INCLUDE_DIRECTORIES
${ROOT_INCLUDE_DIR}
${CLHEP_INCLUDE_DIR}
${CMAKE_SOURCE_DIR}/geobase
${CMAKE SOURCE DIR}/parbase
${CMAKE_SOURCE_DIR}/base
${CMAKE_SOURCE_DIR}/field
${CMAKE_SOURCE_DIR}/mcstack
${CMAKE SOURCE DIR}/passive
${CMAKE SOURCE DIR}/mvd
${CMAKE SOURCE DIR}/mvd/tst
${CMAKE SOURCE DIR}/genfit
${CMAKE_SOURCE_DIR}/tpc
${CMAKE SOURCE DIR}/tpc/tpcreco
${CMAKE_SOURCE_DIR}/tpcreco
${CMAKE SOURCE DIR}/recotasks
${CMAKE_SOURCE_DIR}/recotasks/demo
include_directories( ${INCLUDE_DIRECTORIES})
set(LINK DIRECTORIES
${ROOT_LIBRARY_DIR}
link_directories( ${LINK_DIRECTORIES})
set(RECOTASKS SRCS
CbmFieldAdaptor.cxx
demo/DemoRecoHit.cxx
demo/DemoPatternRecoTask.cxx
demo/DemoKalmanTask.cxx
demo/PrintTask.cxx
demo/MCAnalysisTask.cxx
demo/ClusterAnalysisTask.cxx
KalmanTask.cxx
TrackVisTask.cxx
TrackFitStat.cxx
```

TrackFitStatTask.cxx

```
../tpc/tpcreco/TpcPlanarRecoHit.cxx
)

# fill list of header files from list of source files
# by exchanging the file extension
CHANGE_FILE_EXTENSION(*.cxx *.h RECOTASKS_HEADERS "${RECOTASKS_SRCS}")

set(RECOTASKS_LINKDEF recotasksLinkDef.h)
set(RECOTASKS_DICTIONARY ${CMAKE_CURRENT_BINARY_DIR}/recotasksDict.cxx)

ROOT_GENERATE_DICTIONARY("${RECOTASKS_HEADERS}"
"${RECOTASKS_LINKDEF}" "${RECOTASKS_DICTIONARY}"
"${INCLUDE_DIRECTORIES}")

SET(RECOTASKS_SRCS ${RECOTASKS_SRCS} ${RECOTASKS_DICTIONARY})

add_library(recotasks SHARED ${RECOTASKS_SRCS})
target_link_libraries(recotasks ${ROOT_LIBRARIES}))
set_target_properties(recotasks PROPERTIES VERSION 0.0.1 SOVERSION 0)
```

The lines: demo/PrintTask.cxx demo/MCAnalysisTask.cxx demo/ClusterAnalysisTask.cxx

and

../tpc/tpcreco/TpcPlanarRecoHit.cxx

have been added by myself. The first three tasks have been developed by myself, the first two compiled well with automake and cmake. The third task is extremely similar to the second task just using another root file as input, and includes some minor modifications on variable names which are in no relation with the produced errors.

The last line was necessary to resolve the dynamic link error:

dlopen error: /home/knucl/FAIRroot/PANDAroot/cbuild/lib/librecotasks.so: undefined symbol:

ZTI16TpcPlanarRecoHit

Load Error: Failed to load Dynamic link library

/home/knucl/FAIRroot/PANDAroot/cbuild/lib/librecotasks.so

Maybe this is related to the problem at hand?