
Subject: Re: Running the Kalman on the Mvd (solved dependency)

Posted by [Ralf Kliemt](#) on Fri, 02 May 2008 12:47:42 GMT

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Hi Vanni,

I made the additions to the pandaroot/mvd/CMakeLists.txt. It should be connected to the library where the kalman task is located.

Regards, Ralf.

Toggle Spoiler

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}
${GEANT3_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/MvdMC
${CMAKE_SOURCE_DIR}/mvd/MvdData
${CMAKE_SOURCE_DIR}/mvd/MvdDigi
${CMAKE_SOURCE_DIR}/mvd/PndMvdReco
${CMAKE_SOURCE_DIR}/mvd/MvdTools
${CMAKE_SOURCE_DIR}/mvd/transport
${CMAKE_SOURCE_DIR}/mvd
${CMAKE_SOURCE_DIR}/genfit
${CMAKE_SOURCE_DIR}/recotasks
${CMAKE_SOURCE_DIR}/trackbase
${CMAKE_SOURCE_DIR}/trackrep
${CMAKE_SOURCE_DIR}/geane
)
```

```
include_directories( ${INCLUDE_DIRECTORIES})
```

```
set(LINK_DIRECTORIES
${ROOT_LIBRARY_DIR}
)
```

```
link_directories( ${LINK_DIRECTORIES})
```

```
##### create libMvd
#####
```

```
set(MVD_SRCS
```

```
MvdData/PndMvdDigi.cxx  
MvdData/PndMvdDigiPixel.cxx  
MvdData/PndMvdDigiStrip.cxx  
MvdData/PndMvdMCPoint.cxx
```

```
MvdDigi/PndMvdCalcFePixel.cxx  
MvdDigi/PndMvdCalcPixel.cxx  
MvdDigi/PndMvdCalcStrip.cxx  
MvdDigi/PndMvdDigiAna.cxx  
MvdDigi/PndMvdHybridHitProducer.cxx  
MvdDigi/PndMvdStripHitProducer.cxx  
MvdDigi/PndMvdHitProducerIdeal.cxx  
MvdDigi/PndMvdDigiTask.cxx
```

```
MvdMC/PndMvdContFact.cxx  
MvdMC/PndMvdDetector.cxx  
MvdMC/PndMvdGeo.cxx  
MvdMC/PndMvdGeoPar.cxx  
MvdMC/PndMvdGeoMappingPar.cxx  
MvdMC/PndMvdMaterialDet.cxx
```

```
MvdTools/PndMvdPixelDigiPar.cxx  
MvdTools/PndMvdStripDigiPar.cxx  
MvdTools/PndStringVector.cxx  
MvdTools/PndMvdGeoHandling.cxx  
MvdTools/PndMvdEventAna.cxx  
MvdTools/PndMvdMCEventAna.cxx  
MvdTools/PndMvdDigiEventAna.cxx  
MvdTools/PndMvdAllDataEventAna.cxx  
MvdTools/PndMvdFileNameCreator.cxx  
MvdTools/PndGeoHitList.cxx  
MvdTools/PndEventDisplay.cxx
```

```
)
```

```
# fill list of header files from list of source files
```

```
# by exchanging the file extension
```

```
CHANGE_FILE_EXTENSION(*.cxx *.h MVD_HEADERS "${MVD_SRCS}")
```

```
# SET(MVD_SRCS ${MVD_SRCS} ${DIGI_SRCS})
```

```
# SET(MVD_HEADERS ${MVD_HEADERS} ${DIGI_HEADERS})
```

```
set(MVD_LINKDEF MvdLinkDef.h)
```

```
set(MVD_DICTIONARY ${CMAKE_CURRENT_BINARY_DIR}/MvdDict.cxx)
```

```
ROOT_GENERATE_DICTIONARY("${MVD_HEADERS}" "${MVD_LINKDEF}"
```

```
"${MVD_DICTIONARY}" "${INCLUDE_DIRECTORIES}")
```

```
SET(MVD_SRCS ${MVD_SRCS} ${MVD_DICTIONARY})
```

```
add_library(Mvd SHARED ${MVD_SRCS})
```

```
target_link_libraries(Mvd ${ROOT_LIBRARIES})
```

```
set_target_properties(Mvd PROPERTIES ${CBMROOT_LIBRARY_PROPERTIES})
```

```

##### create libMvdReco
#####
set(MVDRECO_SRCS
# MvdData/PndMvdCluster.cxx
# MvdData/PndMvdStripCluster.cxx
# MvdData/PndMvdPixelCluster.cxx
MvdData/PndMvdRecoHit.cxx
MvdData/PndMvdPidCand.cxx
MvdData/PndMvdCluster.cxx
MvdData/PndMvdHit.cxx
MvdData/PndMvdHitInfo.cxx

MvdPid/PndMvdPidIdealTask.cxx
MvdPid/PndMvdIdealPidAlgo.cxx
MvdPid/PndMvdSimplePidAlgo.cxx
MvdPid/PndMvdAdvancedPidAlgo.cxx

MvdReco/PndMvdAccessRTDBTask.cxx
MvdReco/PndMvdRecoTask.cxx
MvdReco/PndMvdClusterTask.cxx
MvdReco/PndMvdPixelClusterFinder.cxx
MvdReco/PndMvdSimplePixelClusterFinder.cxx
MvdReco/PndMvdIdealPixelClusterFinder.cxx
MvdReco/PndMvdPixelClusterTask.cxx
MvdReco/PndMvdIdealClusterTask.cxx
MvdReco/PndMvdChargeWeightedPixelMapping.cxx
MvdReco/PndMvdStripClusterBuilder.cxx
MvdReco/PndMvdStripClusterTask.cxx
MvdReco/PndMvdIdealRecoTask.cxx

MvdTracking/PndMvdIdealTrackFinderTask.cxx
MvdTracking/PndMvdIdealTrackingTask.cxx
MvdTracking/PndMvdKalmanTask.cxx

)
# fill list of header files from list of source files
# by exchanging the file extension
CHANGE_FILE_EXTENSION(*.cxx *.h MVDRECO_HEADERS "${MVDRECO_SRCS}")
set(MVDRECO_LINKDEF MvdRecoLinkDef.h)
set(MVDRECO_DICTIONARY ${CMAKE_CURRENT_BINARY_DIR}/MvdRecoDict.cxx)

ROOT_GENERATE_DICTIONARY("${MVDRECO_HEADERS}" "${MVDRECO_LINKDEF}"
"${MVDRECO_DICTIONARY}" "${INCLUDE_DIRECTORIES}")
SET(MVDRECO_SRCS ${MVDRECO_SRCS} ${MVDRECO_DICTIONARY})

add_library(MvdReco SHARED ${MVDRECO_SRCS})
target_link_libraries(MvdReco ${ROOT_LIBRARIES})
set_target_properties(MvdReco PROPERTIES ${CBMROOT_LIBRARY_PROPERTIES})

##### install

```

#####

install(TARGETS Mvd DESTINATION \${CMAKE_BINARY_DIR}/lib)

install(TARGETS MvdReco DESTINATION \${CMAKE_BINARY_DIR}/lib)
