cmake\_minimum\_required(VERSION 2.8.3)

project(openni2\_camera)

find\_package(catkin REQUIRED camera\_info\_manager dynamic\_reconfigure image\_transport nodelet sensor\_msgs roscpp message\_generation)

find\_package(Boost REQUIRED COMPONENTS system thread)

find\_package(PkgConfig)

pkg\_check\_modules(PC\_OPENNI2 libopenni2)

if (NOT PC\_OPENNI2\_FOUND)

pkg\_check\_modules(PC\_OPENNI2 REQUIRED openni2)

endif()

generate\_dynamic\_reconfigure\_options(cfg/OpenNI2.cfg)

add\_service\_files(FILES

GetSerial.srv)

generate\_messages()

catkin\_package(

INCLUDE\_DIRS include

LIBRARIES openni2\_wrapper

CATKIN\_DEPENDS camera\_info\_manager dynamic\_reconfigure image\_transport nodelet sensor\_msgs roscpp message\_runtime

DEPENDS libopenni2

)

include\_directories(include

${catkin\_INCLUDE\_DIRS}

${Boost\_INCLUDE\_DIRS}

${PC\_OPENNI2\_INCLUDE\_DIRS}

)

link\_directories(${PC\_OPENNI2\_LIBRARY\_DIRS})

add\_library(openni2\_wrapper

src/openni2\_convert.cpp

src/openni2\_device.cpp

src/openni2\_device\_info.cpp

src/openni2\_timer\_filter.cpp

src/openni2\_frame\_listener.cpp

src/openni2\_device\_manager.cpp

src/openni2\_exception.cpp

src/openni2\_video\_mode.cpp

)

target\_link\_libraries(openni2\_wrapper ${catkin\_LIBRARIES} ${PC\_OPENNI2\_LIBRARIES} ${Boost\_LIBRARIES} )

add\_executable(test\_wrapper test/test\_wrapper.cpp )

target\_link\_libraries(test\_wrapper openni2\_wrapper ${Boost\_LIBRARIES})

add\_library(openni2\_driver\_lib

src/openni2\_driver.cpp

)

target\_link\_libraries(openni2\_driver\_lib openni2\_wrapper ${catkin\_LIBRARIES} ${Boost\_LIBRARIES} )

add\_dependencies(openni2\_driver\_lib ${PROJECT\_NAME}\_gencfg ${PROJECT\_NAME}\_generate\_messages\_cpp)

add\_library(openni2\_camera\_nodelet

ros/openni2\_camera\_nodelet.cpp

)

target\_link\_libraries(openni2\_camera\_nodelet openni2\_driver\_lib ${catkin\_LIBRARIES} ${Boost\_LIBRARIES} )

add\_dependencies(openni2\_camera\_nodelet ${PROJECT\_NAME}\_gencfg)

add\_executable(openni2\_camera\_node

ros/openni2\_camera\_node.cpp

)

target\_link\_libraries(openni2\_camera\_node openni2\_driver\_lib ${catkin\_LIBRARIES} ${Boost\_LIBRARIES} )

add\_dependencies(openni2\_camera\_node ${PROJECT\_NAME}\_gencfg ${PROJECT\_NAME}\_generate\_messages\_cpp)

add\_executable(list\_devices

src/list\_devices.cpp

)

target\_link\_libraries(list\_devices openni2\_wrapper)

if (UNIX AND NOT APPLE)

add\_executable(usb\_reset src/usb\_reset.c)

set(ADDITIONAL\_EXECUTABLES "usb\_reset")

endif()

install(TARGETS openni2\_wrapper openni2\_camera\_nodelet openni2\_camera\_node list\_devices openni2\_driver\_lib ${ADDITIONAL\_EXECUTABLES}

ARCHIVE DESTINATION ${CATKIN\_PACKAGE\_LIB\_DESTINATION}

LIBRARY DESTINATION ${CATKIN\_PACKAGE\_LIB\_DESTINATION}

RUNTIME DESTINATION ${CATKIN\_PACKAGE\_BIN\_DESTINATION}

)

install(DIRECTORY include/${PROJECT\_NAME}/

DESTINATION ${CATKIN\_PACKAGE\_INCLUDE\_DESTINATION}

)

# add xml file

install(FILES openni2\_nodelets.xml

DESTINATION ${CATKIN\_PACKAGE\_SHARE\_DESTINATION}

)