

leon@leon: ~/Desktop/DynamixelSDK-3.3.2/c++/build/linux32 @ @ leon@leon: -/Desktop/DynamixelSDK-3.3.2/c++/build/linux32
leon@leon: -/Desktop/DynamixelSDK-3.3.2/c++/build/linux32\$ sudo make install mkdtr -p ./.objects/
g++ o2 -03 -DLINUX - _GNU_SOURCE -Wall -c -I../../include -m32 -fPIC -g -c ../.
/src/dynamixel_sdk/group_bulk_read.cpp -o .objects/group_bulk_read.o
g++ o2 -03 -DLINUX -D_GNU_SOURCE -Wall -c -I../../include -m32 -fPIC -g -c ../.
/src/dynamixel_sdk/group_bulk_write.cpp -o .objects/group_bulk_write.
g++ o2 -03 -DLINUX -D_GNU_SOURCE -Wall -c -I../../include -m32 -fPIC -g -c ../.
/src/dynamixel_sdk/group_sync_read.opp -o .objects/group_sync_read.o
g++ o2 -03 -DLINUX -D_GNU_SOURCE -Wall -c -I../../include -m32 -fPIC -g -c ../.
/src/dynamixel_sdk/group_sync_write.cpp -o .objects/group_sync_writeg++ o2 -03 -DLINUX -D_GNU_SOURCE -Wall -c -I../../include -m32 -fPIC -g -c ../.
/src/dynamixel_sdk/prothandler.cpp -o .objects/port_handler.o
g++ o2 -03 -DLINUX -D_GNU_SOURCE -Wall -c -I../../include -m32 -fPIC -g -c ../.
/src/dynamixel_sdk/prothandler.cpp -o .objects/port_handler.o
g++ -02 -03 -DLINUX -D_GNU_SOURCE -Wall -c -I../../include -m32 -fPIC -g -c ../.
/src/dynamixel_sdk/prothandler.cpp -o .objects/port_handler.o
g++ -02 -03 -DLINUX -D_GNU_SOURCE -Wall -c -I../../include -m32 -fPIC -g -c ../.
/src/dynamixel_sdk/prothandler.cpp -o .objects/port_handler.o .o -lrt "./libdxl_x86_cpp.so" "/usr/local/lib/libdxl_x86_cpp.so" -s "/usr/local/lib/libdxl_x86_cpp.so" "/usr/local/lib/libdxl_x86_cpp.so.2" -s "/usr/local/lib/libdxl_x86_cpp.so" "/usr/local/lib/libdxl_x86_cpp.so.2.0" -s "/usr/local/lib/libdxl_x86_cpp.so" "/usr/local/lib/libdxl_x86_cpp.so.2.0.0 cp -r ../../include/* /usr/local/include/ If there is an error • To delete the library file from the root directory: Leon@Leon.: ~/Desktop/DynamixelSDK-3.3.2/c++/build/linux32
Leon@Leon.: ~/Desktop/BynamixelSDK-3.3.2/c++/build/linux32\$ sudo make reinstall
m/usr/local/lib/libdxl_x86_cpp.so.2
m/usr/local/lib/libdxl_x86_cpp.so.2.0
m/usr/local/lib/libdxl_x86_cpp.so.2.0
m/usr/local/lib/libdxl_x86_cpp.so.2.0.0
m/usr/local/libclubdxl_x86_cpp.so.2.0.0
m/usr/local/libclubdxl_x86_cpp.so.2.0.0
m/usr/local/libclubd/ynamixel_sdk.h
m-rf/usr/local/libclubd/ynamixel_sdk.h
widir -p./.objects/
++-shared -fPIC -m32 -o./libdxl_x86_cpp.so./.objects/group_bulk_read.o./.ob
ects/group_bulk_write.o./.objects/group_sync_read.o./.objects/group_sync_writ
.o./.objects/packet_handler.o./.objects/protocol1_p
cket_handler.o./.objects/protocol2_packet_handler.o./.objects/port_handler_li
ux.o.'rtt
m."/libdxl_x86_cpp.so"_"///colocal/libdxl_x86.cpp.so." leon: ~/Desktop/DvnamixelSDK-3.3.2/c++/build/linux32 .o -lrt "/\libdxl_x86_cpp.so" "/usr/local/lib/libdxl_x86_cpp.so" -s "/usr/local/lib/libdxl_x86_cpp.so" "/usr/local/lib/libdxl_x86_cpp.so.2" -s "/usr/local/lib/libdxl_x86_cpp.so" "/usr/local/lib/libdxl_x86_cpp.so.2.0" -s "/usr/local/lib/libdxl_x86_cpp.so" "/usr/local/lib/libdxl_x86_cpp.so.2.0.6 cp -r ../../include/* /usr/local/include/ . To recopy the library file to the root directory: eon@leon: ~/Desktop/DynamixelSDK-3.3.2/c++/build/linux32 on@leon:-/Desktop/pynamikal50k-3.3.2/c++/build/linux32\$ sudo make uninstall
/usr/local/lib/libdxl_x86_cpp.so
/usr/local/lib/libdxl_x86_cpp.so.2
/usr/local/lib/libdxl_x86_cpp.so.2.0
/usr/local/lib/libdxl_x86_cpp.so.2.0
/usr/local/lib/libdxl_x86_cpp.so.2.00
/usr/local/linclude/dynamikal_sdk.h
-rf /usr/local/linclude/dynamikal_sdk.h • You will see the built library file in [DynamixelSDK folder]/c/build/[linuxXX]/libdxl_xYY_cpp.so 3. 1. 2. Building and Running the Sample Code The Dynamixel SDK sample code for CPP uses the library files(.so for Linux) built in CPP language. You should build library files in $([DynamixelSDK folder]/c++/build/[linuxXX]/libdxl_xYY_cpp.so)$ with its own source code as shown above • Choose which format (32bit or 64bit) do you want to build in. The Makefile file for building source is in [DynamixelSDK folder]/c++/example/protocol1.0/read_write/linux32] or [DynamixelSDK folder]/c++/example/protocol1.0/read_write/linux64] folder. If you want to build example source in 32bit, for instance, you should build this library in 32bit as well. ⊘ Recent **☆** Home Makefile Desktop n Documents dd Music Pictures **▶■** Videos 面 Trash

• On the terminal, go to the Makefile located folder (/c++/example/protocol1.0/read_write/linux32) for example, using (cd).

To build executable file, type:

[Terminal] \$ make

Network
Computer
Windows
Connect to Server

```
mkdir -p .objects/
g++ -02 -03 -DLINUX -D_GNU_SOURCE -Wall -I../../.include -m32 -g -c ../read_write.cpp -o .objects/read_write.o
g++ -02 -03 -DLINUX -D_GNU_SOURCE -Wall -I../../.include -m32 -g .objects/read_write.o -o read_write -ldxl_x86
tpp -Irt
```

If it shows some error, try make clean and make it again.

To delete executable file, type:

[Terminal] \$ make clean

```
😕 🖨 🕦 leon@leon: ~/Desktop/DynamixelSDK-3.3.2/c++/example/protocol1.0/read_write/linux32
leongleon:-/Desktop/DynamixelSDK-3.3.2/c++/example/protocol1.0/read_write/linux32$ make clean rm -rf read_write.objects core *~ *.a *.so *.lo
```

Make the port available to be used

[Terminal] \$ sudo chmod a+rw /dev/ttyUSB0

```
@@@@leon@leon:~/Desktop/DynamixelSDK-3.3.2/c++/example/protocol1.0/read_write/linux32
leon@leon:~/Desktop/DynamixelSDK-3.3.2/c++/example/protocol1.0/read_write/linux3
```

Run the source code

[Terminal] \$ (./read_write)

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                                                         n leon@leon: ~/Desktop/DynamixelSDK-3.3.2/c++/example/protocol1.0/read_write/linux32
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