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                Cypress Semiconductor Corporation
                CyUSB Suite For Linux, version 1.0.5
                ====================================

Pre-requisites:
  1. libusb-1.0.x is required for compilation and functioning of the API
     library.
  2. Native gcc/g++ tool-chain and the GNU make utility are required for
     compiling the library and application.
  2. qt4 is required for building the cyusb_linux GUI application.
  3. The pidof command is used by the cyusb_linux application to handle
     hot-plug of USB devices.

Installation Steps:

  1. cd to the main directory where files where extracted and execute 'make'.
     This will compile the libcyusb library and create a static library.

     For example, if the archive is extracted to /home/user/cyusb_linux_1.0.5; then
     e.g.: user@desktop:/home/user/cyusb_linux_1.0.5 $ make

  2. Make sure that the install.sh script is executable by changing the mode
     of install.sh file.
     e.g.: user@desktop:/home/user/cyusb_linux_1.0.5 $ chmod +x install.sh

  3. The install.sh script compiles the cyusb_linux GUI application, and installs
     the libcyusb library and the application in the system directories (/usr/local/).
     It also sets up a set of UDEV rules and updates the environment variables under
     the /etc directory.

     As these changes require root (super user) permissions, the install.sh script
     needs to be executed from a root login.

     e.g.: root@desktop:/home/user/cyusb_linux_1.0.5 $ ./install.sh

  4. The GUI application can now be launched using the 'cyusb_linux' command.
```

```
william@Penrith-2: ~/Desktop/FX3_SDK_1.3.4_Linux/cyusb_linux_1.0.5
william@Penrith-2:~/Desktop/FX3_SDK_1.3.4_Linux/cyusb_linux_1.0.5$ make
g++ -fPIC -o lib/libcyusb.o -c lib/libcyusb.cpp
g++ -shared -Wl,-soname,libcyusb.so -o lib/libcyusb.so.1 lib/libcyusb.o -l usb-1
.0 -l rt
/usr/bin/ld: cannot find -lusb-1.0
collect2: error: ld returned 1 exit status
Makefile:2: recipe for target 'all' failed
make: *** [all] Error 1
william@Penrith-2:~/Desktop/FX3_SDK_1.3.4_Linux/cyusb_linux_1.0.5$ make
g++ -fPIC -o lib/libcyusb.o -c lib/libcyusb.cpp
g++ -shared -Wl,-soname,libcyusb.so -o lib/libcyusb.so.1 lib/libcyusb.o -l libus
b-1.0 -l rt
/usr/bin/ld: cannot find -llibusb-1.0
collect2: error: ld returned 1 exit status
Makefile:2: recipe for target 'all' failed
make: *** [all] Error 1
william@Penrith-2:~/Desktop/FX3_SDK_1.3.4_Linux/cyusb_linux_1.0.5$ lsb_release -
a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 16.04.5 LTS
Release:       16.04
Codename:      xenial
william@Penrith-2:~/Desktop/FX3_SDK_1.3.4_Linux/cyusb_linux_1.0.5$
```

THE SECOND PROBLEM COMES WITH THE ./install:

```
william@Penrith-2: ~/Desktop/FX3_SDK_1.3.4_Linux/cyusb_linux_1.0.5
william@Penrith-2:~/Desktop/FX3_SDK_1.3.4_Linux/cyusb_linux_1.0.5$ sudo ./install.sh
[sudo] password for william:
Your current directory is /home/william/Desktop/FX3_SDK_1.3.4_Linux/cyusb_linux_1.0.5. This is where the cyusb_suite software will be installe
d...
g++ -fPIC -o lib/libcyusb.o -c lib/libcyusb.cpp
g++ -shared -Wl,-soname,libcyusb.so -o lib/libcyusb.so.1 lib/libcyusb.o
cd lib; ln -sf libcyusb.so.1 libcyusb.so
rm -f lib/libcyusb.o
rm -f moc_controlcenter.cpp
rm -f ui_controlcenter.h
rm -f controlcenter.o main.o fx2_download.o fx3_download.o streamer.o moc_controlcenter.o
rm -f *~ core *.core
/usr/lib/x86_64-linux-gnu/qt4/bin/uic controlcenter.ui -o ui_controlcenter.h
g++ -c -m64 -pipe -O2 -Wall -W -D_REENTRANT -DQT_NO_DEBUG -DQT_GUI_LIB -DQT_NETWORK_LIB -DQT_CORE_LIB -DQT_SHARED -I/usr/share/qt4/mkspecs/lin
ux-g++-64 -I. -I/usr/include/qt4/QtCore -I/usr/include/qt4/QtNetwork -I/usr/include/qt4/QtGui -I/usr/include/qt4 -I. -I. -o controlcenter.o co
ntrolcenter.cpp
g++ -c -m64 -pipe -O2 -Wall -W -D_REENTRANT -DQT_NO_DEBUG -DQT_GUI_LIB -DQT_NETWORK_LIB -DQT_CORE_LIB -DQT_SHARED -I/usr/share/qt4/mkspecs/lin
ux-g++-64 -I. -I/usr/include/qt4/QtCore -I/usr/include/qt4/QtNetwork -I/usr/include/qt4/QtGui -I/usr/include/qt4 -I. -I. -o main.o main.cpp
main.cpp: In function 'void get_config_details()':
main.cpp:625:66: error: 'libusb_get_ss_endpoint_companion_descriptor' was not declared in this scope
     libusb_get_ss_endpoint_companion_descriptor (NULL, ep, &compd);
                                                                  ^
main.cpp:646:66: error: invalid use of incomplete type 'struct get_config_details()::libusb_ss_endpoint_companion_descriptor'
       summ[summ_count].reqsize = (summ[summ_count].maxps * (compd->bMaxBurst +
                                                                  ^
main.cpp:623:12: note: forward declaration of 'struct get_config_details()::libusb_ss_endpoint_companion_descriptor'
     struct libusb_ss_endpoint_companion_descriptor *compd = NULL;
            ^
main.cpp:647:14: error: invalid use of incomplete type 'struct get_config_details()::libusb_ss_endpoint_companion_descriptor'
         (compd->bmAttributes + 1));
              ^
main.cpp:623:12: note: forward declaration of 'struct get_config_details()::libusb_ss_endpoint_companion_descriptor'
     struct libusb_ss_endpoint_companion_descriptor *compd = NULL;
            ^
main.cpp:649:66: error: invalid use of incomplete type 'struct get_config_details()::libusb_ss_endpoint_companion_descriptor'
       summ[summ_count].reqsize = (summ[summ_count].maxps * (compd->bMaxBurst +
                                                                  ^
main.cpp:623:12: note: forward declaration of 'struct get_config_details()::libusb_ss_endpoint_companion_descriptor'
     struct libusb_ss_endpoint_companion_descriptor *compd = NULL;
            ^
Makefile:234: recipe for target 'main.o' failed
make: *** [main.o] Error 1
```

I BELIEVE I HAVE ALL OF THE PATHS SET UP CORRECTLY IN .bashrc. I HAVE NOT BEEN ABLE TO GET AROUND THIS. ANY SUGGESTIONS?