

*******DRAFT*******
KICAD for CATBOARD

03/28/18

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The schmatic & pcb artwork for the CATBOARD were created with Kicad.

The following 3 repositories were forks from xesscorp.

git clone <https://github.com/develone/CAT-Board.git>

git clone <https://github.com/develone/KiCad-Schematic-Symbol-Libraries.git>

git clone <https://github.com/develone/KiPart.git>

Install the kicad with ***sudo apt-get install kicad***

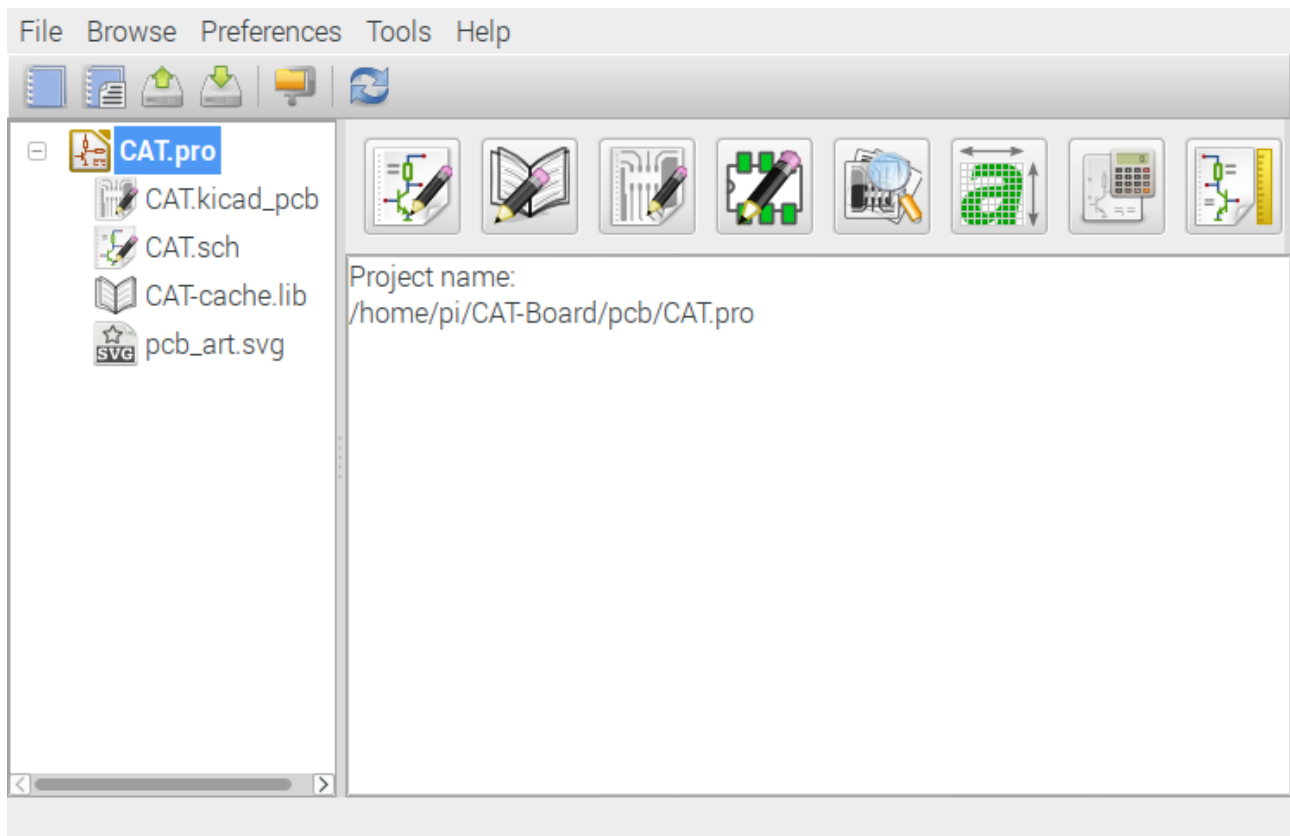
<http://kicad-pcb.org/help/tutorials/>

All of the files to build a CATBOARD are

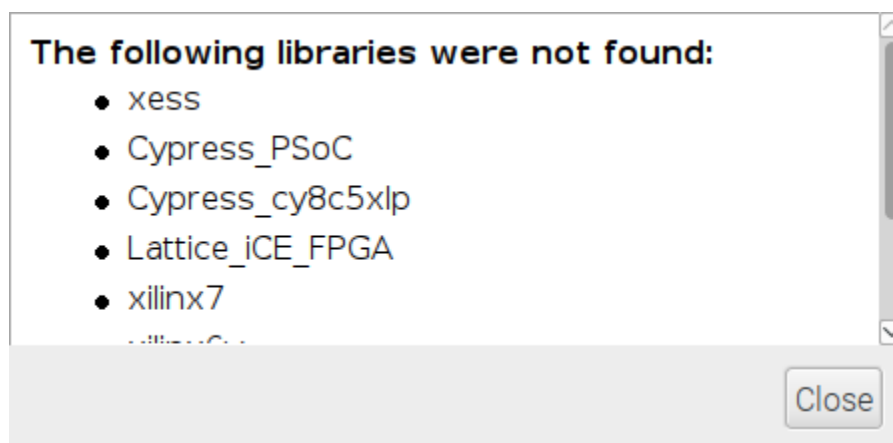
<https://github.com/develone/CAT-Board/tree/master/docs/Manual/pics>

```
pi@pi3-2:~ $ cd CAT-Board/pcb/
```

```
pi@pi3-2:~/CAT-Board/pcb $ kicad CAT.pro
```



The first icon is ***Eeschema Electronic Schematic Editor***.
The xesscorp libraries need to be added.
Depress the ***Eeschema*** icon a new window will appear.



Depress Close

It looks like this project was made using older schematic component libraries. Some parts may need to be relinked to a different symbol name, and some symbols may need to be "rescued" (cloned and renamed) into a new library.

The following changes are recommended to update the project.

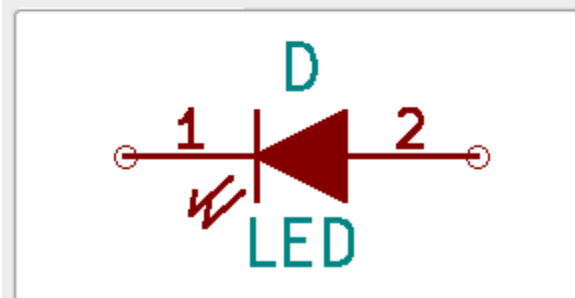
Symbols to update:

Accept	Symbol	Action
<input checked="" type="checkbox"/>	LED	Rescue LED as LED-RESCUE-CAT

Instances of this symbol:

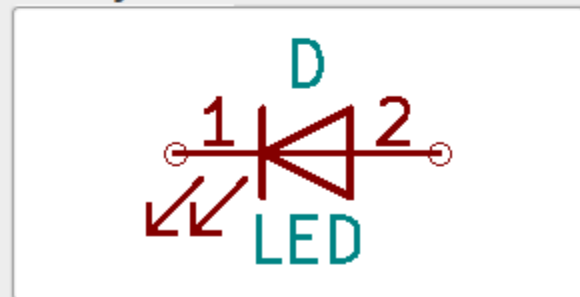
Reference	Value
LED1	LED
LED2	LED

Cached Part:



Never Show Again

Library Part:



Cancel

OK

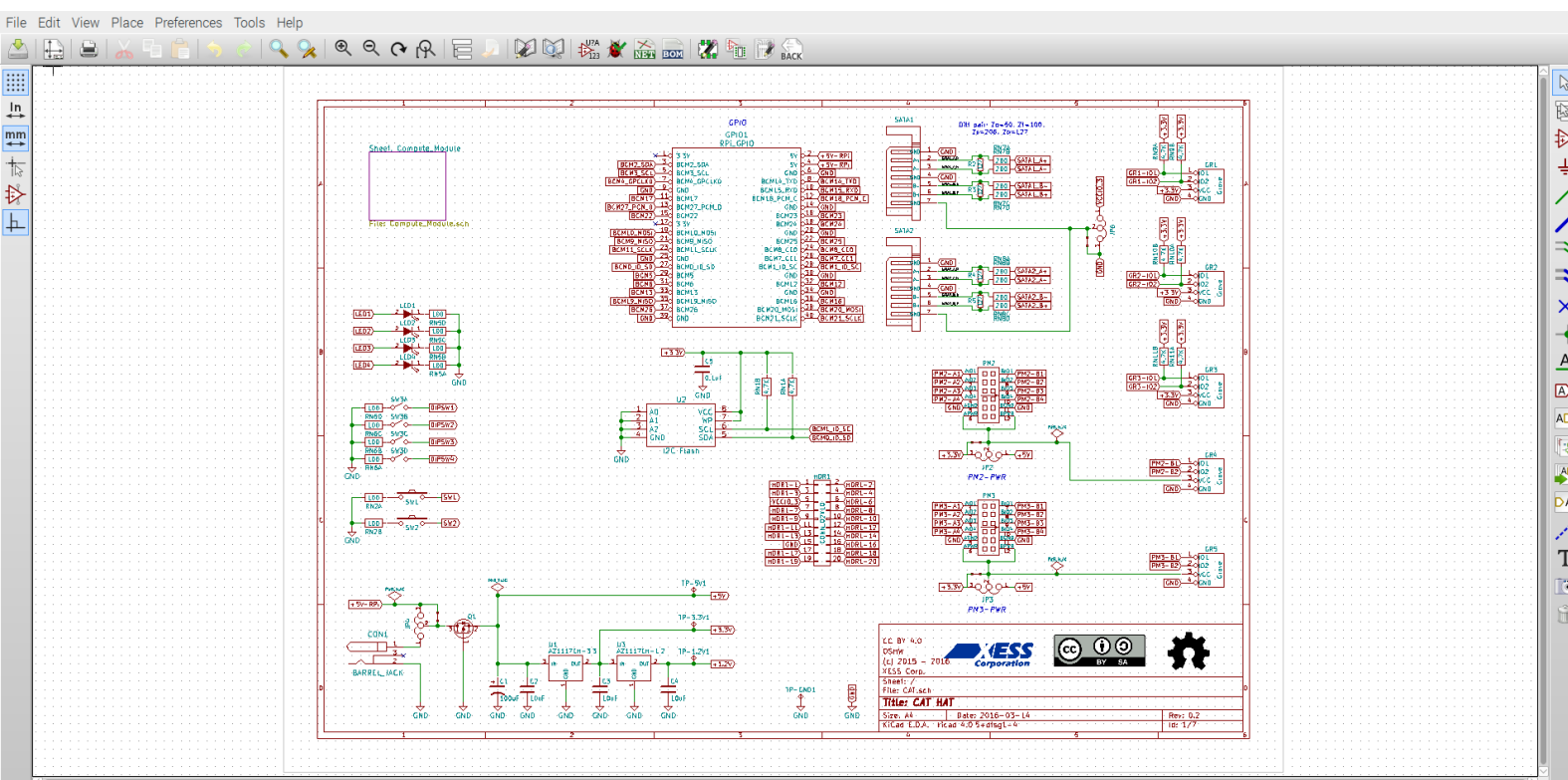
Depress OK

The following libraries were not found:

- xess
- Cypress_PSoC
- Cypress_cy8c5xlp
- Lattice_iCE_FPGA
- xilinx7

Close

Depress Close



Done Loading <Memory.sch>

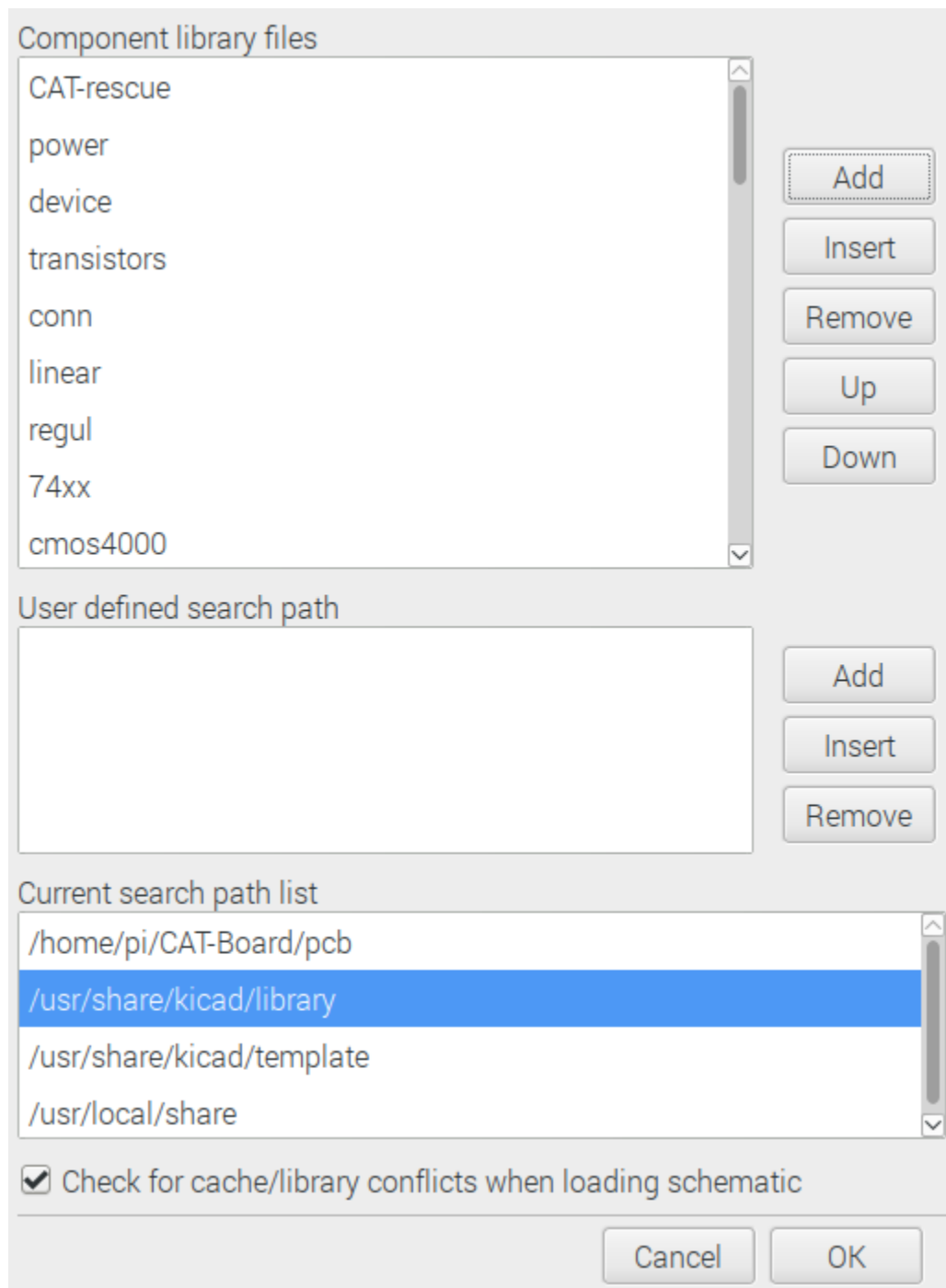
Z 1.14

X -68.60 Y 0.00

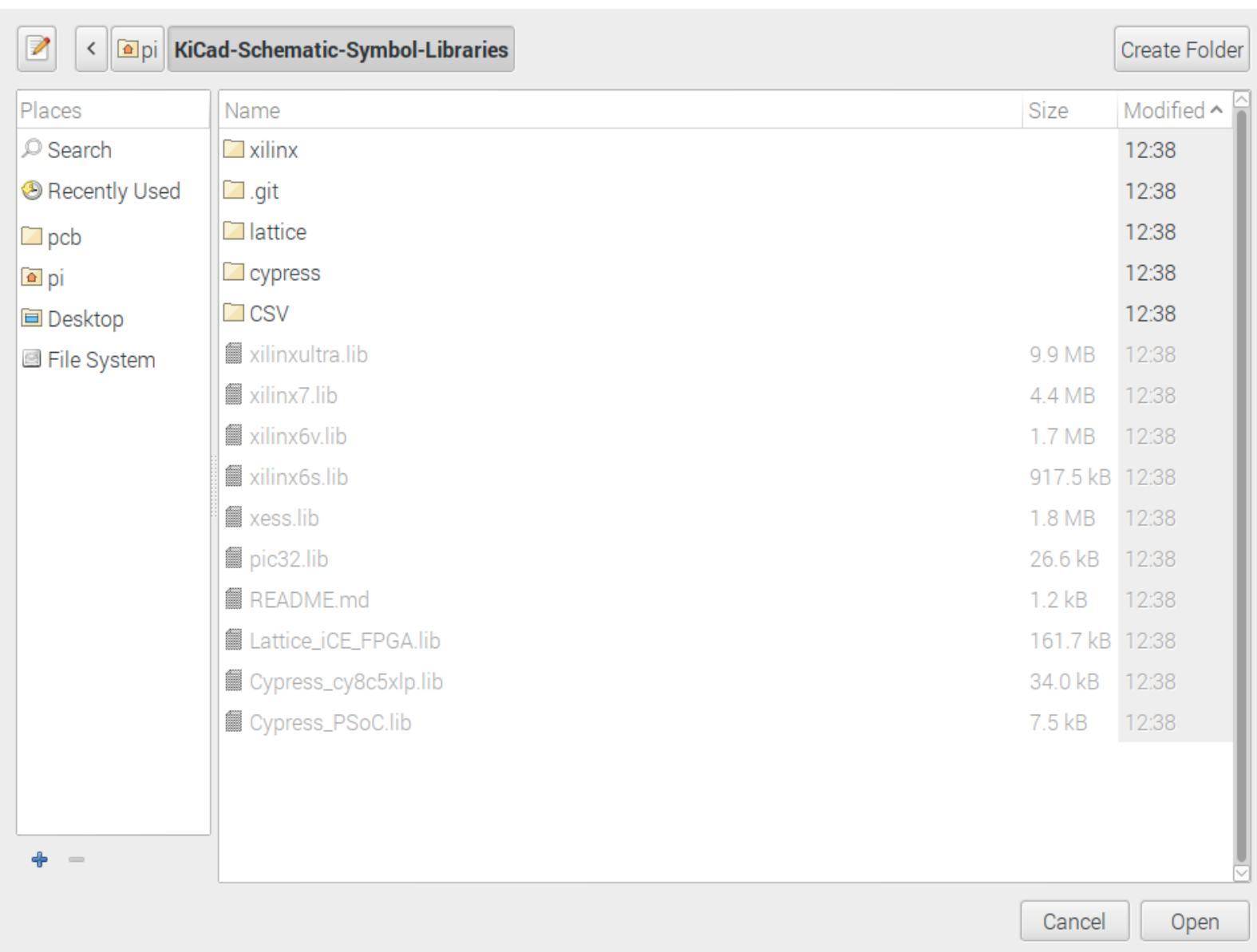
dx -68.60 dy 0.00 dist 68.60

mm

Depress Preference/Component Libraries



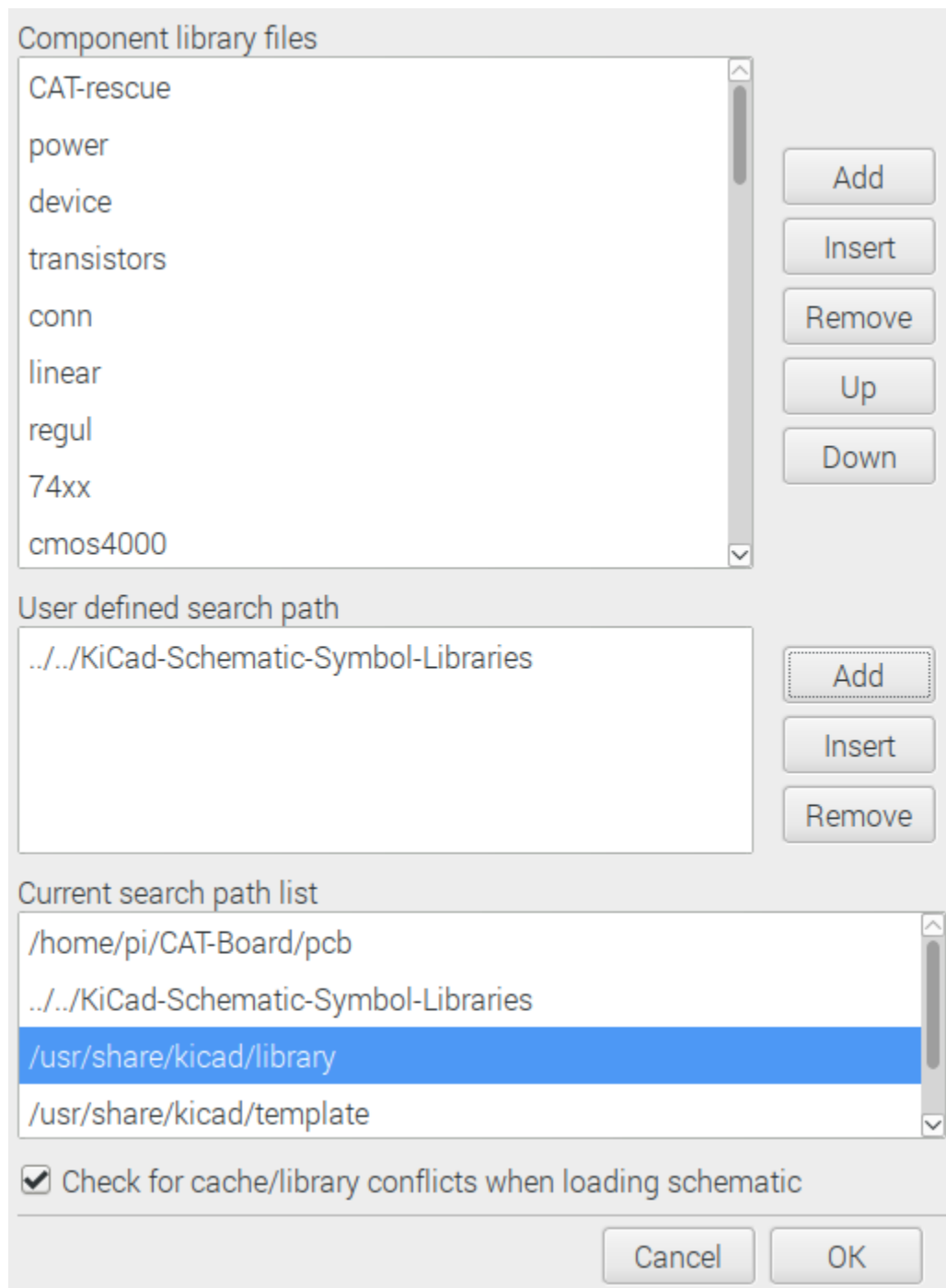
Depress Add for User defined search path.



Depress Open



Depress Yes



Still having an issue with Cypress Lib.

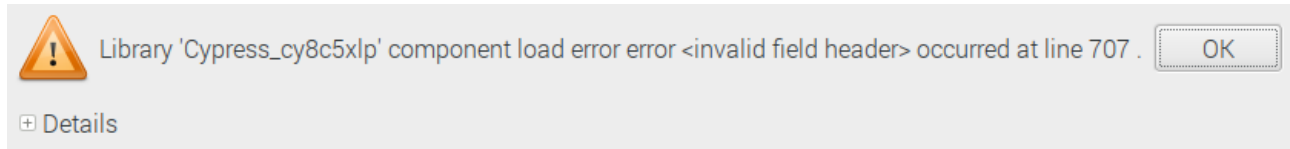
Note:

```
git clone https://github.com/develone/KiPart.git
cd KiPart/
sudo python setup.py install
cd ~/
mkdir testkipart
cd testkipart
cp -R ~/KiCad-Schematic-Symbol-Libraries/cypress/ .
```

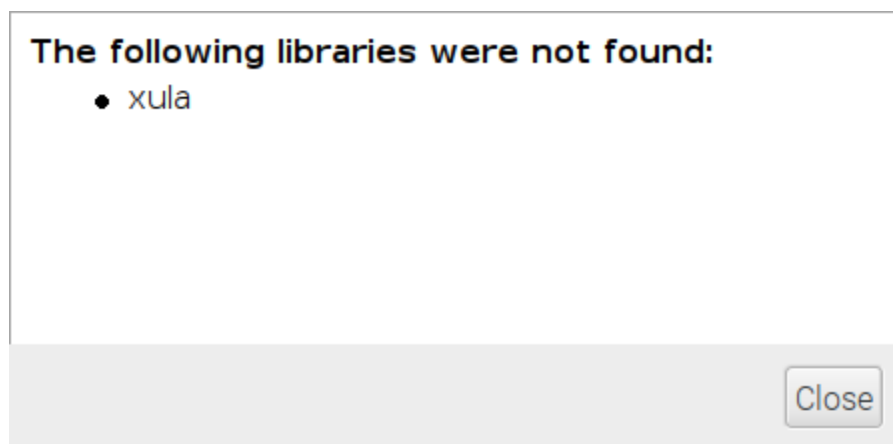
```
pi@pi3-2:~/testkipart/cypress $ make
```

```
kipart CY8C5XLP.csv -r psoc5lp -b -s name -o Cypress_cy8c5xlp.lib -w  
mv -f Cypress_cy8c5xlp.lib ..
```

```
cd ../  
cp Cypress_cy8c5xlp.lib ~/KiCad-Schematic-Symbol-Libraries/
```

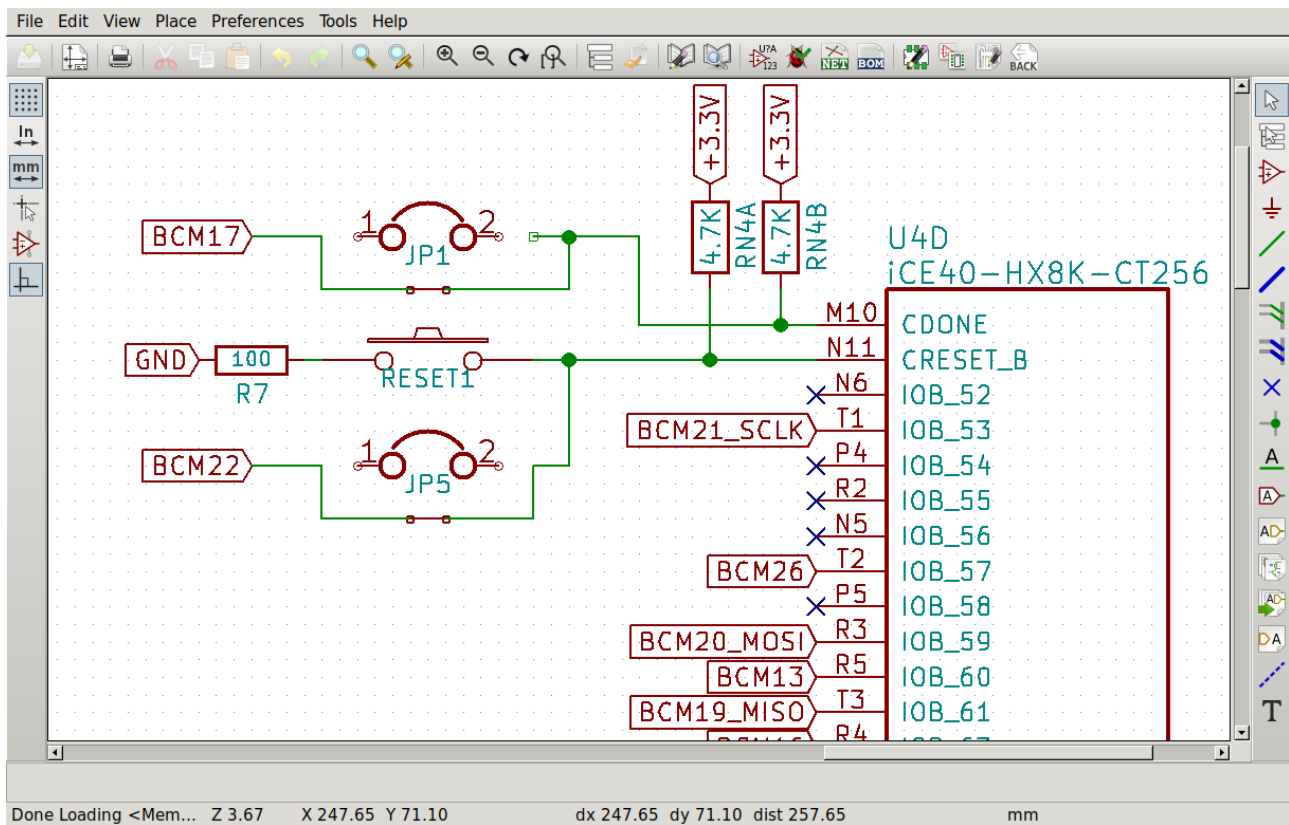


Depress OK

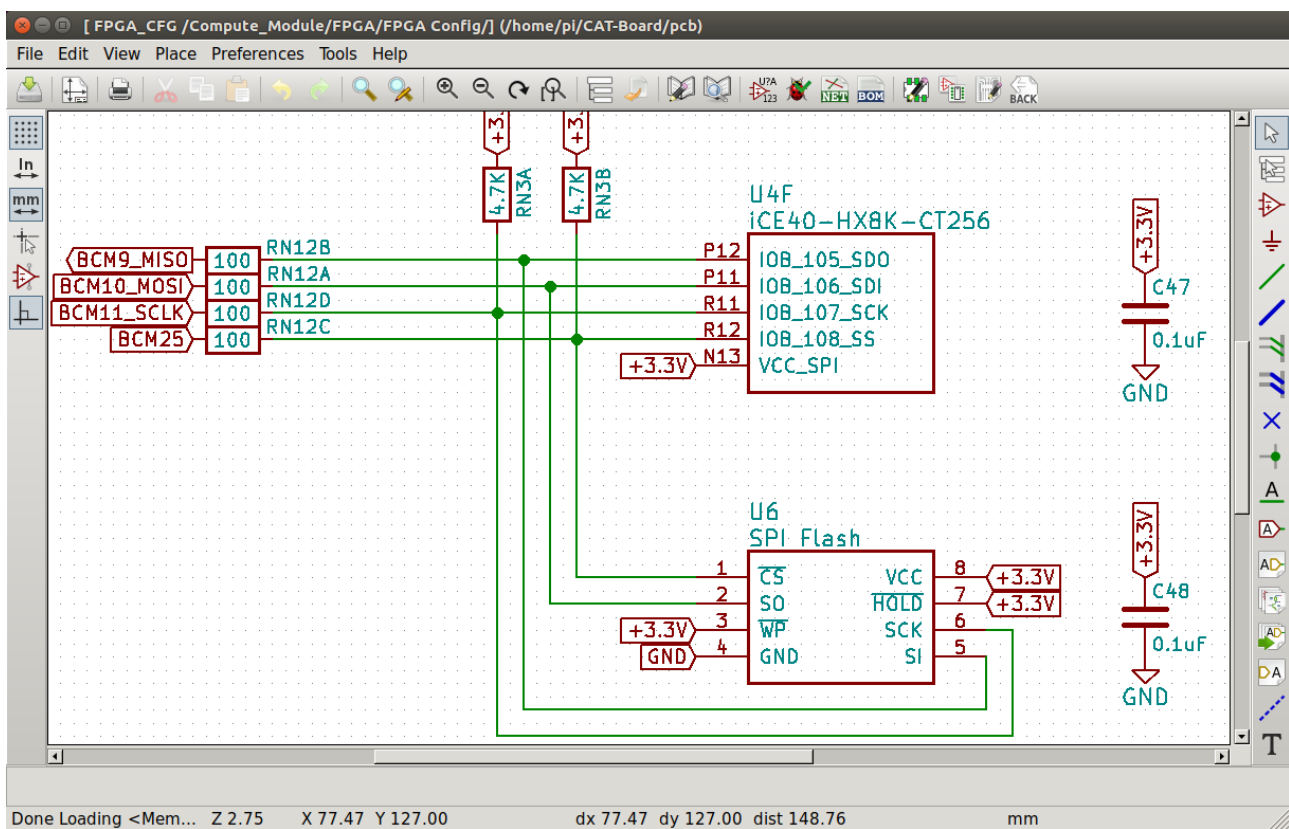


Depress Close

Section where the reset, spi, done.



SPI Flash



Depress Ok