```
Forked https://github.com/cejasmasmas/ultibo lvgl
git clone https://github.com/develone/ultibo_lvgl.git
unzipped these 2 files lv_examples.zip lvgl.zip which provides the C sources.
I created a script compile.sh based on compile.bat
compile.sh
#!/bin/bash
rm -f *.o libultiboCgeneric.a
arm-none-eabi-gcc -O2 -mabi=aapcs -marm -march=armv7-a -mfpu=vfpv3-d16 \
-mfloat-abi=hard -D__DYNAMIC_REENT__ -I libtess2/Include/ -c ultiboClvgl.c lvgl/src/lv_core/
*.c \
lvgl/src/lv_draw/*.c lvgl/src/lv_font/*.c lvgl/src/lv_gpu/*.c lvgl/src/lv_hal/*.c \
lvgl/src/lv_misc/*.c lvgl/src/lv_themes/*.c lvgl/src/lv_widgets/*.c \
lv_examples/src/lv_demo_printer/*.c lv_examples/src/lv_demo_printer/images/*.c \
lv examples/src/lv demo benchmark/*.c lv examples/assets/*.c
arm-none-eabi-ar rcs libultiboClvgl.a *.o
arm-none-eabi-objdump -d libultiboClvgl.a > libultiboClvgl.txt
Project needed a fix.
git remote add upstream <a href="https://github.com/cejasmasmas/ultibo">https://github.com/cejasmasmas/ultibo</a> lvgl
git fetch upstream
git merge upstream/master
git push origin master
~/Ultibo_Projects/ultibo_lvgl/
./compile.sh
~/Ultibo_Projects/ultibo_lvgl/RPi3
 libultiboClvgl.a
```

```
Ultibolvg| X

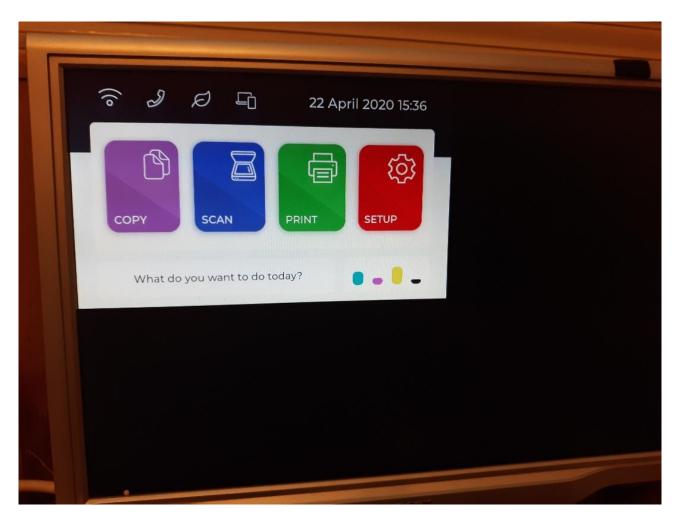
| function NonBlockingMouse(Parameter:Pointer):PtrInt;
| ConsoleWindowWriteLn(WindowHandle, '');
| ConsoleWindowWriteLn(WindowHandle, 'Local Address ' + IPAddress);
| SetonMsg (@Msg);
| {Create and start the HTIP Listener for our web status page} |
| HTIPListener.Active:=ITrue;
| {Register the web status page, the "Thread List" page will allow us to see what webstatusRegister(HTIPListener,','', 'True);
| {Wait a couple of seconds for C:\ drive to be ready} |
| Use for a second |
| Sleep for a second |
| Sleep
```

Run/Compile

```
File Edit Search View Source Project Run Tools Window Help
 ultibolvgl.lpr ×
            function NonBlockingMouse(Parameter:Pointer):PtrInt;
ConsoleWindowWriteLn(WindowHandle,'');
    180
             ConsoleWindowWriteLn (WindowHandle, 'Local Address ' + IPAddress);
             SetOnMsg (@Msg);
{Create and start the HTTP Listener for our web status page}
    185
             HTTPListener:=THTTPListener.Create;
HTTPListener.Active:=True;
            HIPLISTENEY.ACTIVE:=|rue; |Register the web status page, the "Thread List" page will allow us to see what is happening in the example} WebStatusRegister(HTTPListener,'','',True); {Wait a couple of seconds for C:\ drive to be ready} ConsolevindowMriteLn(WindowHandle,'Waiting for drive C:\');
    190
             while not DirectoryExists('C:\') do
begin
{Sleep for a second}
               Sleep(1000);
             ConsoleWindowWriteLn(WindowHandle, 'C:\ drive is ready');
             ConsoleWindowWriteLn(WindowHandle,'');
    198
                                       INS /home/devel/Ultibo_Projects/ultibo_lvgl/RPi3/ultibolvgl.lpr
ultibolygl.lpr(302,17) Hint: Conversion between ordinals and pointers is not portable
ultibolvgl.lpr(307,72) Hint: Variable "ThreadMouseHandle" does not seem to be initialized
ultibolvgl.lpr(49,2) Note: Local variable "MyPLoggingDevice" not used
ultibolygl.lpr(52,2) Note: Local variable "TCP" not used
□ultibolvgl.lpr(112,12) Hint: Local proc "getScreenPitch" is not used
□ultibolvgl.lpr(117,12) Hint: Local proc "getScreenBuffer" is not used
□ultibolvgl.lpr(122,13) Hint: Local proc "getKey" is not used
□ ultibolvgl.lpr(139,12) Hint: Local proc "getScreenSize" is not used
□ultibolvgl.lpr(145,12) Hint: Local proc "getMouseXY" is not used
```

Green bar compile & link successful.

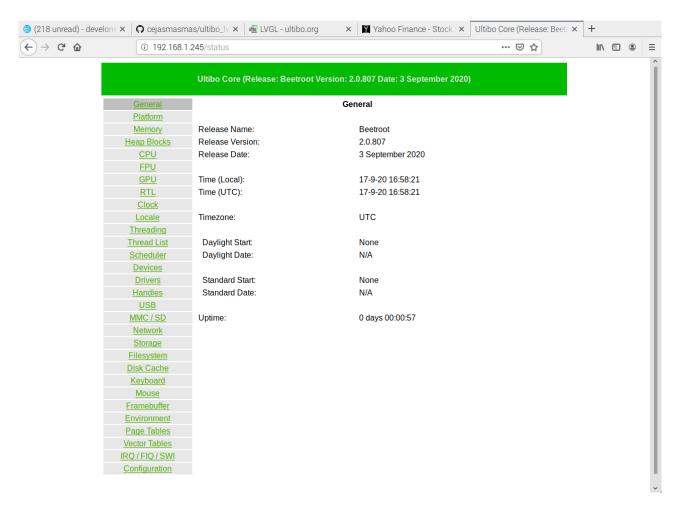
tftp 192.168.1.245 < cmdstftp tftp> tftp> Sent 5044228 bytes in 27.4 seconds After the reboot.



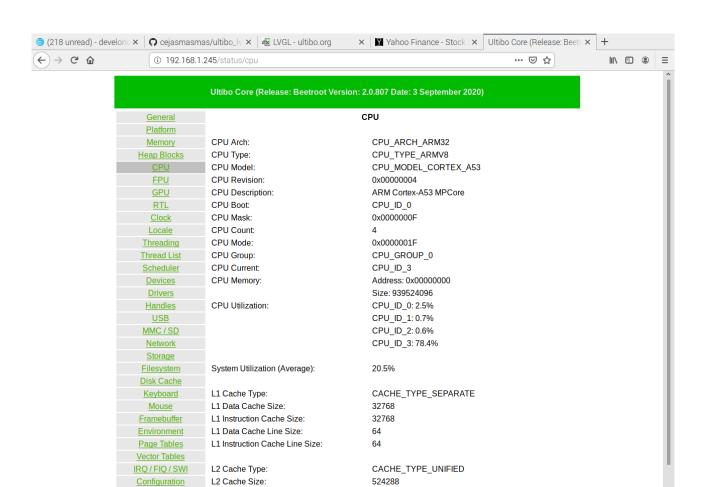
Remote shell

Remote shell help

```
File Edit Tabs Help
Connected to 192.168.1.245.
Escape character is '^]'.
Ultibo Core (Release: Beetroot Version: 2.0.807 Date: 3 September 2020)
(Type HELP for a list of available commands)
Available commands:
 HELP
 INFO
 VER
 TIME
 CLS
 RESTART
 SHUTDOWN
 UPTIME
 THREAD
 MEMORY
 DEVICE
 FILESYSTEM
 CONTROLLER
 DISK
 PARTITION
 VOLUME
 DRIVE
 CACHE
 DIR
 CD
 MD
 RD
 TYPE
 COPY
 MOVE
 DEL
 REN
 ATTRIB
 TOUCH
 VOL
 LABEL
 DELTREE
 XCOPY
 UPDATE
 LOGOUT
```



web cpu



L2 Cache Line Size: