*******Default*******

Adding WiFI to DWT openjpeg

12/04/21

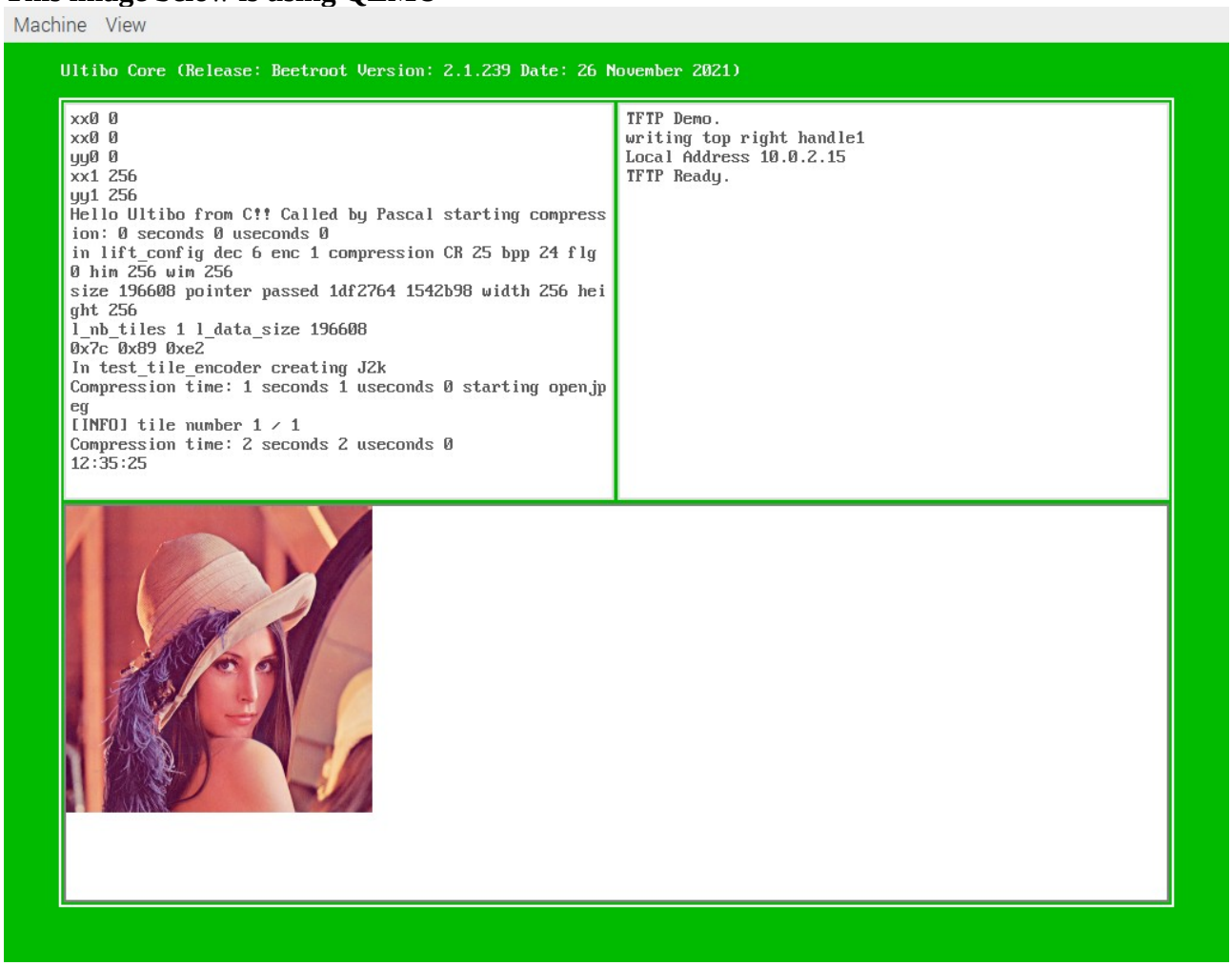
*******Default*******

Objective: To start with Ultibo members pjde & ric355 to create a Rpi WIFI that provides remote shell, webstatus. tftp, openjpeg 2000 over WIFI.
This will also integrate C with Ultibo.

This project starts with 2 of Ulitbo_Projects
Ultibo_Projects/jpeg2000

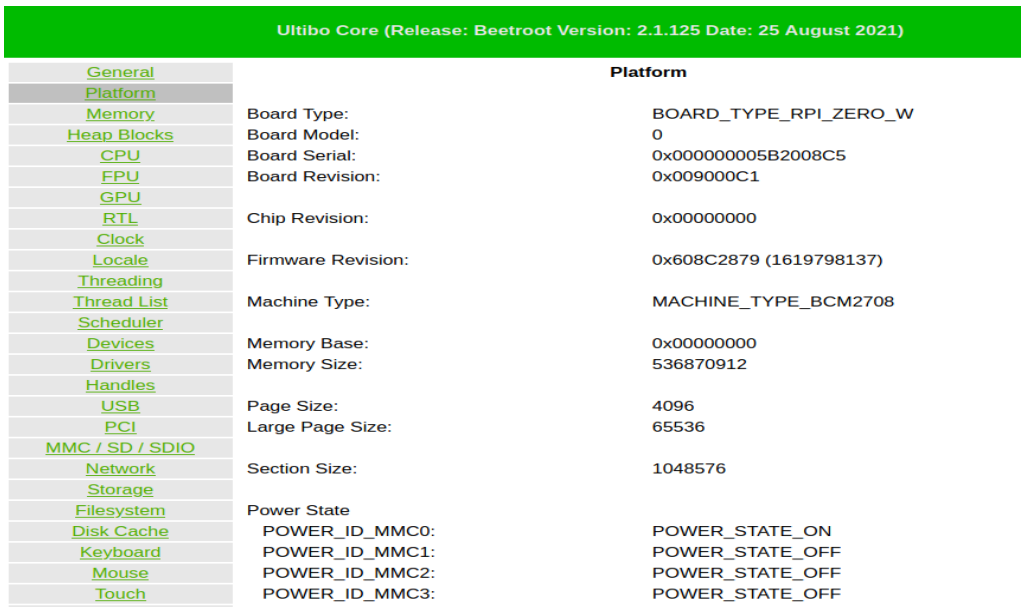
- **DWT_LIFT_Rpi.lpr**
- **uBufferToC.pas**
- **uliftbitmap.pas**
- **uTFTP.pas**

This image below is using QEMU



Ultibo_Projects/RIC-WIFI

- **wifi.lpr**
- **wifidevice.pas**
- **overrides.pas**
- **wifidevice.pas**
- **logoutput.pas**
- **uTFTP.pas**



Status: Currently the Ultibo window appears and then disapeas.

Steps to create a kernel.img

Need to create a library of the openjpeg sources.

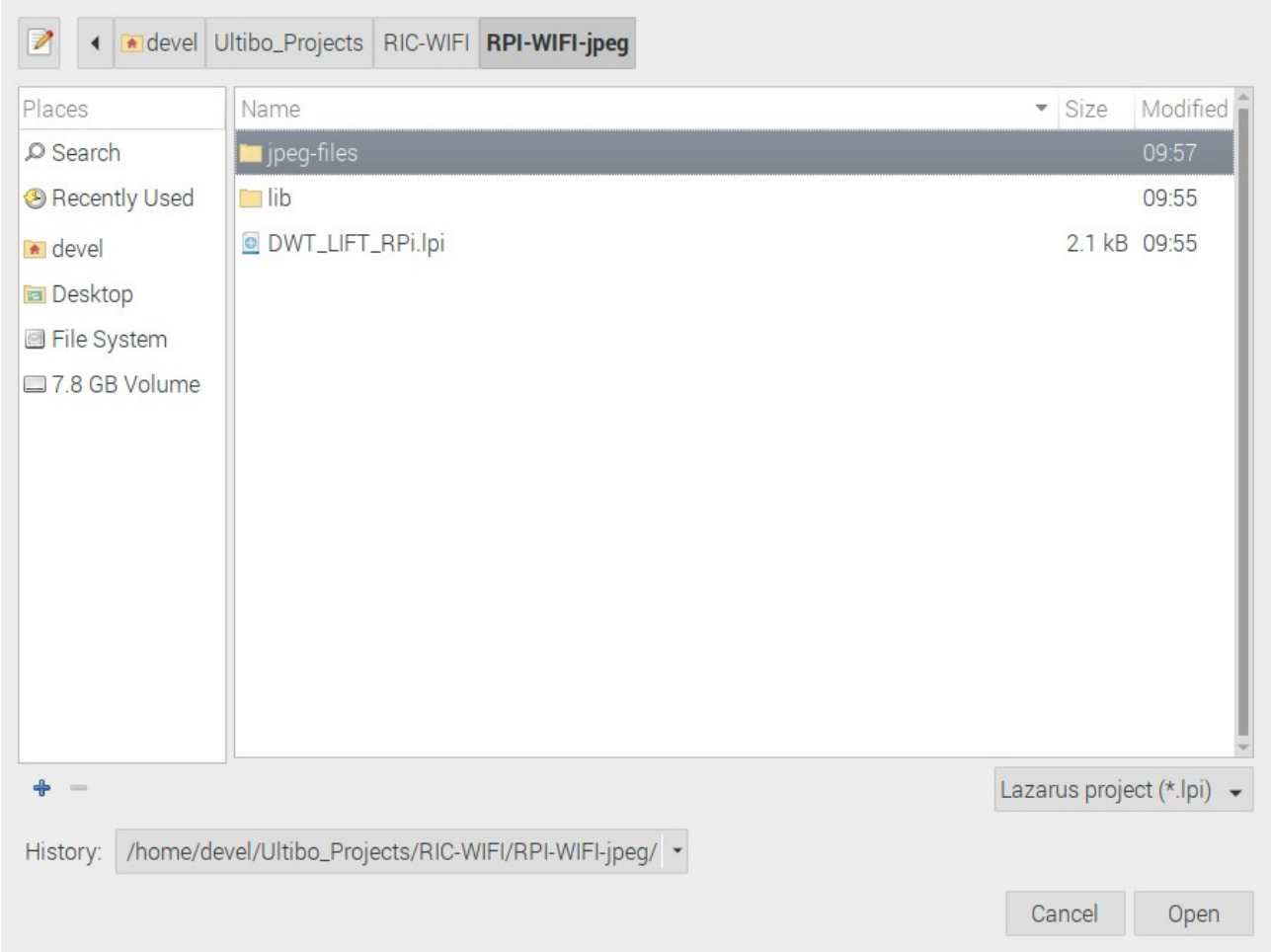
cd Ultibo_Projects/RIC-WIFI/src
The next step creates libopenjp2.a & libopenjp2_obj.txt
./compile_ultibo.sh
The word count here should be 22
the word count in /home/pi/jpeg-2000-test/bare-metal/openjp
when ./libbuild.sh is executed should be 22
22 22 182 libopenjp2_obj.txt

Need to create a library for Ultibo using libopenjp2.a from previous step.

cd ../RPI-WIFI-jpeg/
./libbuild.sh
dwtlift.c: In function 'decompress':

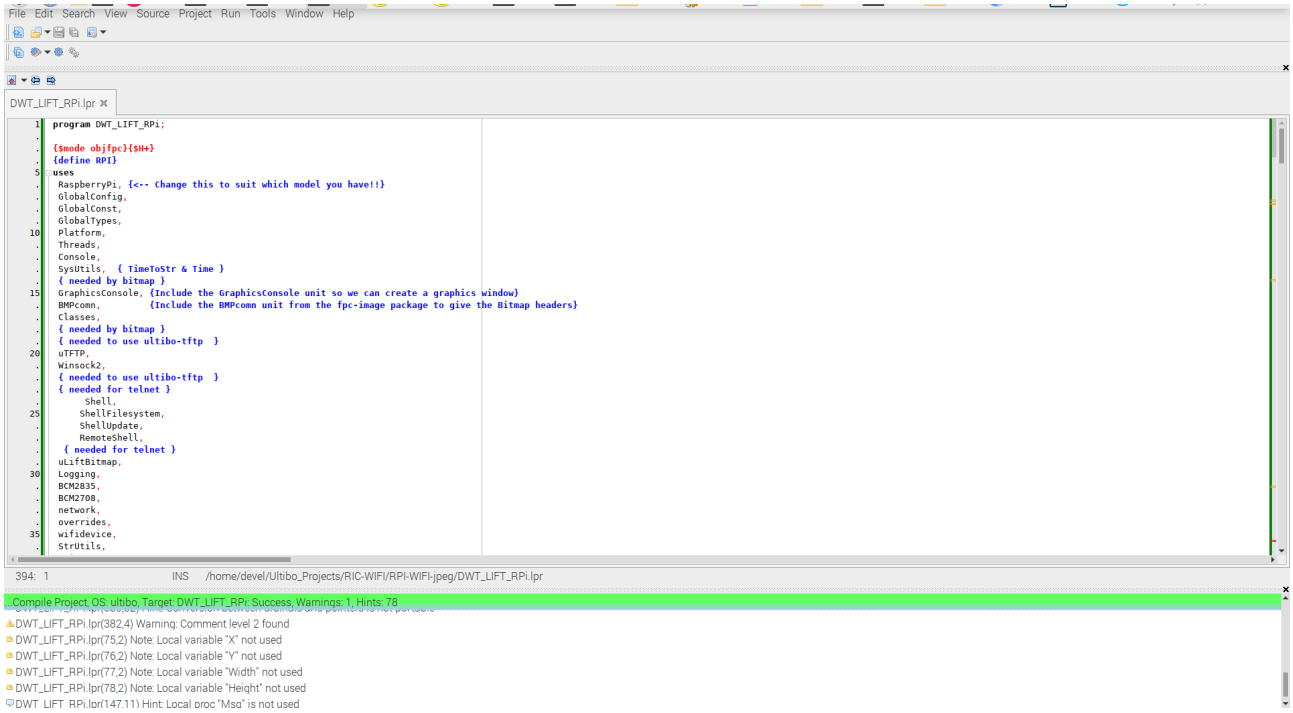
dwtlift.c:658:3: warning: implicit declaration of function 'octave_write_byte'; did you mean 'opj_write_tile'? [-Wimplicit-function-declaration]
octave_write_byte(r_decompress_fn,r_decompress,da_x1*da_y1);
^~~~~~~~~~~~~~~~~~
opj_write_tile

Using Lazarus IDE (Ultibo-Edition)
From the main menu Project/Open



Depress Open

From the main menu Run/Compile



The green bar indicates the kernel.img was created.