```
   if (firmware[i].chipid = WIFI^.chipid) and (firmware[i].chipidrev = WIFI^.chipidrev) then
   begin
+     // If no regulatory file just succeed
+     if Length(firmware[i].regufilename) = 0 then
+     begin
+       Result := WIFI_STATUS_SUCCESS;
+       Exit;
+     end;
+
      RegulatoryFilename := FIRMWARE_FILENAME_ROOT + firmware[i].regufilename;
      Found := true;

  if Result <> WIFI_STATUS_SUCCESS then
   exit;

+ Result := WirelessSetInt(WIFI, 'bus:rxglom', 0);
+ // Linux driver says this is allowed to fail
+ //if Result <> WIFI_STATUS_SUCCESS then
+ // exit;
+
Now telnet xx.xx.xx.xx works using WIFI.

  Result := WirelessSetInt(WIFI, 'bcn_timeout', 10);
```

Ultibo Core (Release: Beetroot Version: 2.1.125 Date: 25 August 2021)
(Type HELP for a list of available commands)
Directory of C:\

```
 29-11-21 16:34:36            52456  bootcode.bin
 29-11-21 20:18:36               13  config.txt
 29-11-21 16:34:40     <DIR>          firmware
 29-11-21 16:34:40             5442  fixup4.dat
 29-11-21 16:34:40             7313  fixup.dat
 29-11-21 16:34:40          2231712  start4.elf
 29-11-21 16:34:42          2955936  start.elf
 1-12-21 02:51:48           3087112  kernel.img
 29-11-21 20:21:14               56  cmdline.txt
        8 file(s) 8340040 bytes
        1 dir(s)
```

C:\>

Initial tests

| Ultibo Core (Release: Beetroot Version: 2.1.125 Date: 25 August 2021) | | |
|---|---|---|
| General | **Platform** | |
| Platform | | |
| Memory | Board Type: | BOARD_TYPE_RPI_ZERO_W |
| Heap Blocks | Board Model: | 0 |
| CPU | Board Serial: | 0x000000005B2008C5 |
| FPU | Board Revision: | 0x009000C1 |
| GPU | | |
| RTL | Chip Revision: | 0x00000000 |
| Clock | | |
| Locale | Firmware Revision: | 0x608C2879 (1619798137) |
| Threading | | |
| Thread List | Machine Type: | MACHINE_TYPE_BCM2708 |
| Scheduler | | |
| Devices | Memory Base: | 0x00000000 |
| Drivers | Memory Size: | 536870912 |
| Handles | | |
| USB | Page Size: | 4096 |
| PCI | Large Page Size: | 65536 |
| MMC / SD / SDIO | | |
| Network | Section Size: | 1048576 |
| Storage | | |
| Filesystem | Power State | |
| Disk Cache | POWER_ID_MMC0: | POWER_STATE_ON |
| Keyboard | POWER_ID_MMC1: | POWER_STATE_OFF |
| Mouse | POWER_ID_MMC2: | POWER_STATE_OFF |
| Touch | POWER_ID_MMC3: | POWER_STATE_OFF |

~~kernel7.img still not getting WIFI https://github.com/develone/Ultibo_Projects/tree/master/RIC-WIFI/tests/RPi3/0403-0201/022720~~

kernel7.img now gets WIFI on the Rpi3B+ compile with Lazarus IDE (Ultibo-Edition).
kernel7.img now supports tftp

cat config.txt
start_x=1
gpu_mem=128

diff bootcode.bin demofiles/bootcode.bin
diff fixup4.dat demofiles/fixup4.dat
diff fixup.dat demofiles/fixup.dat
diff start4.elf demofiles/start4.elf
diff start.elf demofiles/start.elf

| Ultibo Core (Release: Beetroot Version: 2.1.125 Date: 25 August 2021) | | |
|---|---|---|
| General | **General** | |
| Platform | | |
| Memory | Release Name: | Beetroot |
| Heap Blocks | Release Version: | 2.1.125 |
| CPU | Release Date: | 25 August 2021 |
| FPU | | |
| GPU | Time (Local): | 28-11-21 23:25:09 |
| RTL | Time (UTC): | 28-11-21 23:25:09 |
| Clock | | |
| Locale | Timezone: | UTC |
| Threading | | |
| Thread List | Daylight Start: | None |
| Scheduler | Daylight Date: | N/A |
| Devices | | |
| Drivers | Standard Start: | None |
| Handles | Standard Date: | N/A |
| USB | | |
| PCI | Temperature (SoC): | 36.476 degrees Celcius |
| MMC / SD / SDIO | | |
| Network | Uptime: | 0 days 00:01:31 |
| Storage | | |
| Filesystem | | |
| Disk Cache | | |
| Keyboard | | |
| Mouse | | |
| Touch | | |

| Ultibo Core (Release: Beetroot Version: 2.1.125 Date: 25 August 2021) | | |
|---|---|---|
| General | **Platform** | |
| Platform | | |
| Memory | Board Type: | BOARD_TYPE_RPI3B_PLUS |
| Heap Blocks | Board Model: | 0 |
| CPU | Board Serial: | 0x000000008471DEDD |
| FPU | Board Revision: | 0x00A020D3 |
| GPU | | |
| RTL | Chip Revision: | 0x00000000 |
| Clock | | |
| Locale | Firmware Revision: | 0x5E4EB7C2 (1582217154) |
| Threading | | |
| Thread List | Machine Type: | MACHINE_TYPE_BCM2710 |
| Scheduler | | |
| Devices | Memory Base: | 0x00000000 |
| Drivers | Memory Size: | 1073741824 |
| Handles | | |
| USB | Page Size: | 4096 |
| PCI | Large Page Size: | 65536 |
| MMC / SD / SDIO | | |
| Network | Section Size: | 1048576 |
| Storage | | |
| Filesystem | Power State | |
| Disk Cache | POWER_ID_MMC0: | POWER_STATE_ON |
| Keyboard | POWER_ID_MMC1: | POWER_STATE_OFF |
| Mouse | POWER_ID_MMC2: | POWER_STATE_OFF |
| Touch | POWER_ID_MMC3: | POWER_STATE_OFF |

kernel7l.img now supports tftp
https://github.com/develone/Ultibo_Projects/tree/master/RIC-WIFI/tests/RPi3/0403-0201/112221

Using Ultibo member Paul's uTFTP.pas.

config.txt
cmdline.txt

firmware
brcmfmac43430-sdio.bin     brcmfmac43455-sdio.clm_blob
brcmfmac43430-sdio.txt     brcmfmac43455-sdio.txt
brcmfmac43436-sdio.bin     brcmfmac43456-sdio.bin
brcmfmac43436-sdio.clm_blob  brcmfmac43456-sdio.clm_blob
brcmfmac43436-sdio.txt     brcmfmac43456-sdio.txt
brcmfmac43436s-sdio.bin     LICENCE.broadcom_bcm43xx
brcmfmac43436s-sdio.txt     Makefile
brcmfmac43455-sdio.bin

The folder firmware was copied from ultibowifi 3b1b3d8.

ls firmwar_for_ultibo/022720/
bootcode.bin  fixup.dat  fixup_x.dat  start.elf  start_x.elf