A connection from RaspBian to Ultibo System "telnet 192.168.1.245 5050".

The initial values were below.

MyKey: AnsiString = '1234567890123456'; {Must be 16, 24 or 32 bytes}

MyIV: AnsiString = 'My Secret IV';

MyAAD: AnsiString = 'My Extra Secret AAD';

MyData: AnsiString = 'The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the lazy dog.';

when the string below is sent to the Ultibo System

412345678901234567890123456789012:My Secret IV:My Extra Secret AAD:The quick brown The quick brown The quick brown The quick brown The quick brown

The delimiter is:

MyKey 12345678901234567890123456789012

MyIV My Secret IV

MyAAD My Extra Secret AAD

MyData The quick brown The quick brown The quick brown The quick brown The quick brown

The results are writen to file test0527.txt

tftp 192.168.1.245 tftp> binary tftp> get test0527.txt Received 366 bytes in 0.0 seconds tftp> quit

```
File Edit Tabs Help

12345678901234567890123456789012

My Secret IV

My Extra Secret AAD

The quick brown The quick brown The quick brown The quick brown

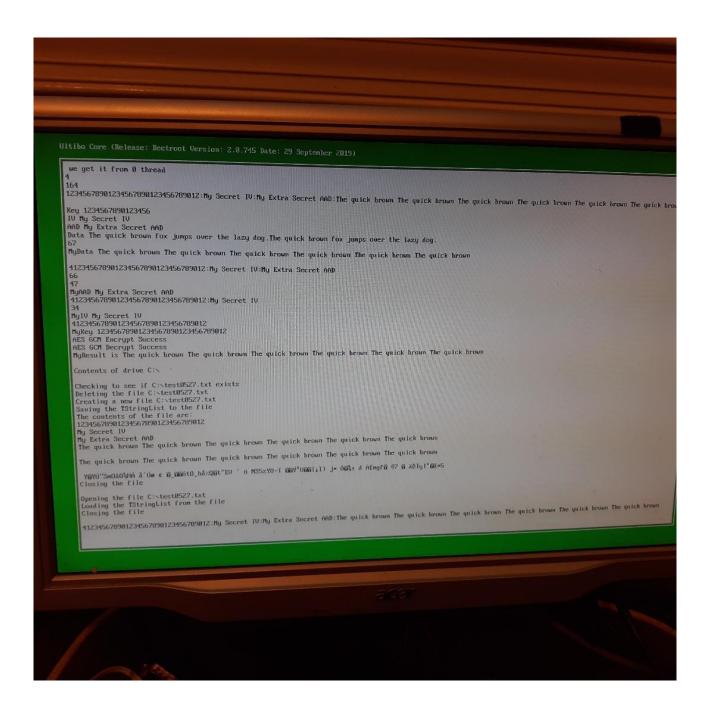
The quick brown

The quick brown

The quick brown The quick brown The quick brown The quick brown

The quick brown

ANY SETY CDA SMO SE2 H C1>^X SE5> SB4> CDA> F8>^@ A2>^L SB1> CC2 N SE2 H C1>^X SE5> SB4> CC2 N SE2 H C2>^L SE5> N SE2 H C2>^L SE5>^R C3>^L SE5>^L SE5
```



Background: Started with 2 projects test\_crypto.lpi & Srv.lpi from github devlone Ultibo\_Projects.

Commad line using FPC

Step 1 . ~/fpc.sh

cd Ultibo\_Projects/Crypto-Socket/Rpi3/ or cd Ultibo\_Projects/Crypto-Socket/RPi2/

Step 3 compile

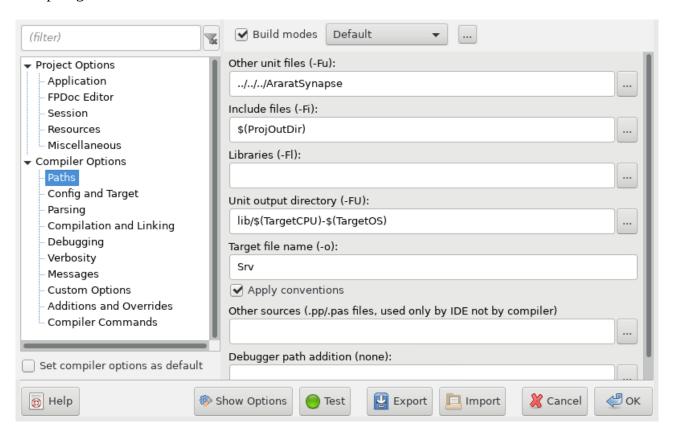
fpc -vi -B -Tultibo -Parm -CpARMV7A -WpRPI3B -Fu../../AraratSynapse @/home/devel/ultibo/core/fpc/bin/RPI3.CFG -O2 Srv.lpr

or

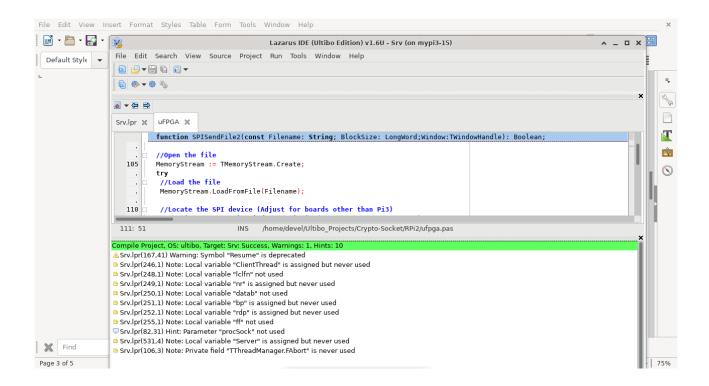
fpc -vi -B -Tultibo -Parm -CpARMV7A -WpRPI2B -Fu../../AraratSynapse @/home/devel/ultibo/core/fpc/bin/RPI2.CFG -O2 Srv.lpr Transfer kernel7.img

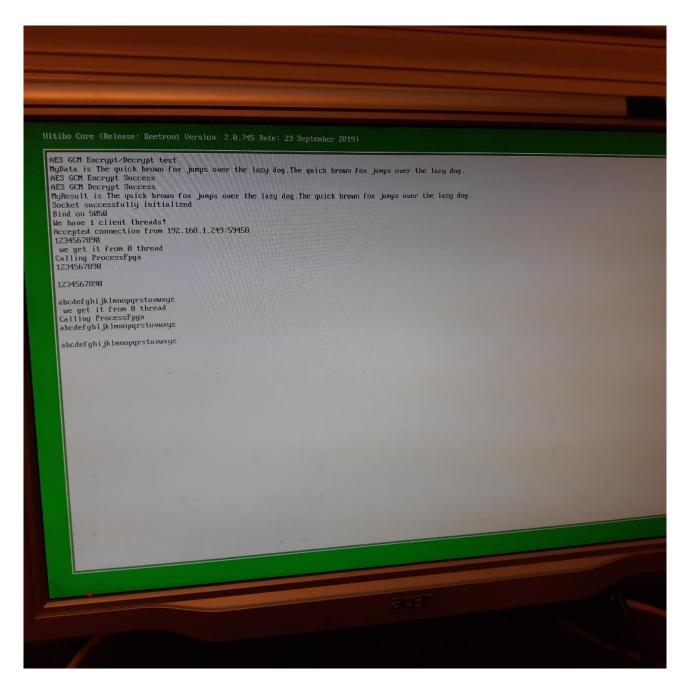
To transfer kernel7.img tftp 192.168.1.69 < cmdstftp tftp> tftp> Sent 2701996 bytes in 5.3 seconds

Compiling with Lazaraus.



Depress Run/Compile





Telnet

```
File Edit View Terminal Tabs Help
Assembling srv
Linking Srv
13707 lines compiled, 2.7 sec, 2636686 bytes code, 89000 bytes data
1 warning(s) issued
13 note(s) issued
devel@mypi3-15:~/Ultibo Projects/Crypto-Socket/RPi2 $ tftp 192.168.1.69 < cmdstf</pre>
tftp> tftp> Sent 2701996 bytes in 5.3 seconds
tftp> devel@mypi3-15:~/Ultibo Projects/Crypto-Socket/RPi2 $ ping 192.168.1.69
PING 192.168.1.69 (192.168.1.69) 56(84) bytes of data.
64 bytes from 192.168.1.69: icmp_seq=2 ttl=128 time=0.651 ms
64 bytes from 192.168.1.69: icmp_seq=3 ttl=128 time=0.630 ms
64 bytes from 192.168.1.69: icmp_seq=4 ttl=128 time=0.596 ms
^C
--- 192.168.1.69 ping statistics ---
3 received, 2
4 packets transmitted, 3 received, 25% packet loss, time 133ms rtt min/avg/max/mdev = 0.596/0.625/0.651/0.036 ms
devel@mypi3-15:~/Ultibo Projects/Crypto-Socket/RPi2 $ telnet 192.168.1.69 5050
Trying 192.168.1.69...
Connected to 192.168.1.69.
Escape character is '^]'.
1234567890
abcdefghijklmnopgrstuvwxyz
```