How to build Realtek USB HUB Test_Command

Key Word:

Linux ; Realtek USB HUB ; RTS5441 ; testmode ; rts_hub_u3testmode

Description

To test the USB waveform, you must use the test program provided by Realtek for testing in the system. Realtek will provide source code to compile.

Directions

1. To modefy Makefile CROSS_COMPILE to system toolchain

```
CROSS_COMPILE ?= <toolchain path>
```

Then

```
make
```

Two files will be generated after completion
testmode and rts_hub_u3testmode

2. Cpoy two files to system and testing

3. Check USB HUB is mount

```
lsusb
```

will be show
Bus 004 Device 002: ID 0bda:5411 <-- USB 2.0
Bus 005 Device 002: ID 0bda:0411 <-- USB 3.0

4. Test USB 2.0

[command]
./testmode -D <VID:PID> -p <port> -t <testmode>

<VID:PID> 0bda:5411
<port> 1~4
<testmode>
    test_packet
    test_se0_nak
    test_k
    test_j
    test_force_hs
    test_force_fs

example:

```
./testmode -D 0bda:5411 -p 1 -t test_packet
./testmode -D 0bda:5411 -p 2 -t test_packet
./testmode -D 0bda:5411 -p 3 -t test_packet
./testmode -D 0bda:5411 -p 4 -t test_packet
```

5. Test USB 3.0

[command]
./rts_hub_u3testmode -P <PID> -p <port>
<PID> 0411
<port> 1~4

example:

```
./rts_hub_u3testmode -P 0411 -p 1
./rts_hub_u3testmode -P 0411 -p 2
./rts_hub_u3testmode -P 0411 -p 3
./rts_hub_u3testmode -P 0411 -p 4
```