Roma update spl/u-boot

Method 1

```
1 sudo apt-get update
2 sudo apt install tftpd-hpa
3 sudo systemctl status tftpd-hpa
```

- 1 # Modify Configuration
- 2 vim /etc/default/tftpd-hpa

```
red ywegwe-virtual-machine:-/img$ ls
blanbu-22.04.1-desktop-visionfive2-20230407061455

me blanbu-ubuntu.zip
starfive-visionfive2-vfat.part
cmme/ywegwe-virtual-machine:-/img$

1 sudo systemctl restart tftpd-hpa #reboot
```

Enter the u-boot mode through the serial port and update the settings (remember to connect the network cable during this process)

```
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StarFive #
```

Tftp server address

```
tarfive-visionfive2-vfat.part
                                                 visionfive2_fw_payload.img
yue@vue-virtual-machine:~/img$ ifconfig -a
ens33: flags=4163<UP,BROADCAST,RUNN1NG,MULTICAST>
                                                 mtu 1500
       inet 192.168.2.112 netmask 255.255.255.0 broadcast 192.168.2.255
       tnetó fe80::94bc:d48e:85b:ab22 prefixlen 64 scopeid 0x20<link>
       ether 00:0c:29:42:63:9a txqueuelen 1000 (Ethernet)
       RX packets 109472 bytes 95424619 (95.4 MB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 18330 bytes 10628061 (10.6 MB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
       inet 127.0.0.1 netmask 255.0.0.0
       inet6 ::1 prefixlen 128 scopeid 0x10<host>
       loop txqueuelen 1000 (Local Loopback)
       RX packets 596 bytes 53669 (53.6 KB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 596 bytes 53669 (53.6 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
ue@yue-virtual-machine:~/img$
```

Set the local IP and server IP on the serial port

```
1 setenv ipaddr 192.168.2.123
```

```
Unknown command 'setenv' – try 'help'
StarFive # setenv ipaddr 192.168.2.123
StarFive # saveenv
Saving Environment to SPIFlash... Erasing SPI flash...Writing to SPI flash...done
OK
StarFive #
```

```
1 setenv serverip 192.168.2.112
```

```
StarFive # setenv serverip 192.168.2.112
StarFive # saveenv
Saving Environment to SPIFlash... Erasing SPI flash...Writing to SPI flash...done
```

```
1 sf probe
2 tftpboot 0xa0000000 192.168.2.112:u-boot-spl.bin.normal.out
3 sf update 0xa0000000 0x0 $filesize
4 tftpboot 0xa0000000 192.168.2.112:visionfive2_fw_payload.img
5 sf update 0xa0000000 0x100000 $filesize
6
```

Method 2

Enter UBOOT

```
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StarFive #
```

Parody

```
1 #If using EMMC copy, use mmc dev 0
```

```
2 #If using SD copy, please ensure that the SD card is inserted
 3 Mmc dev 1
 4 #Read mmc u boot spl
 5 #0x300 represents 768 sectors, depending on the size of the u-boot spl file, whi
 6 Mmc read 0xa000000 0x1000 0x300
7 Sf probe
8 #Write u-boot spl to SPI Flash
9 #0x6000=0x300 * 512
10 Sf update 0xa000000 0x0 0x60000
11 #Read mmc visionfive2_ Fw_ Payload
12 #0x2000 represents 8192 sectors, depending on visionfive2_ Fw_ The payload file
13 Mmc read 0xa000000 0x2000 0x2000
14 #Write visionfive2 Fw Payload to SPI Flash
15 #0x400000=0x2000 * 512
16 Sf update 0xa000000 0x100000 0x400000
17 #Clear spi uboot
18 Sf probe
19 Sf erase 0 0x1000000
```

Notes on updating SPI and UBoot

```
1 env default -a -f
2 saveenv
3 boot
```

Spl / u-boot Download address

http://120.92.155.32:8082/ui/native/riscv/JH7110/SDK3.6.1/