#### SD卡烧录说明

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#### USB烧录说明

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# SD卡烧录说明

# 1、使用前准备

# FAT32格式的Micro SD卡,用以下命令查看sd卡分区格式
sudo fdisk -1
# Ubuntu下格式化SD卡为Fat32格式操作,如果sd卡是fat32格式跳过下面操作
1.df -h #查看设备号
2.umount /dev/sdb1 #取消挂载
3.sudo mkfs.vfat -F 32 /dev/sdb1 #格式化成Fat32格式
4.sudo fdisk -1 #查看格式化结果

## 2、操作过程

文件位置

# 3、操作实例

### 3.1, 将开发板上通过串口转TTL板与电脑连接

注意板端的RX脚接 usb-ttl 的TX脚,板端TX脚接 usb-ttl 的RX脚



### 3.2, 使用mobaxterm配置串口终端

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终端显示

[root@cvitek]~#

1. 插卡上电开机后,会自动进入升级,升级完成后,如下所示会停留在uboot: Hit any key to stop autoboot: 0 ## Resetting to default environment Start SD downloading... mmc1 : finished tuning, code:60 465408 bytes read in 11 ms (40.3 MiB/s) mmc0 : finished tuning, code:27 switch to partitions #1, OK mmcO(part 1) is current device MMC write: dev # 0, block # 0, count 2048 ... 2048 blocks written: OK in 17 ms (58.8 MiB/s) MMC write: dev # 0, block # 2048, count 2048 ... 2048 blocks written: OK in 14 ms (71.4 MiB/s) Program fip.bin done mmc0 : finished tuning, code:74 switch to partitions #0, OK mmcO(part 0) is current device

```
64 bytes read in 3 ms (20.5 KiB/s)
Header Version:1
2755700 bytes read in 40 ms (65.7 MiB/s)
MMC write: dev # 0, block # 0, count 5383 ... 5383 blocks written: OK in 64 ms
(41.1 MiB/s)
64 bytes read in 4 ms (15.6 KiB/s)
Header Version:1
13224 bytes read in 4 ms (3.2 MiB/s)
MMC write: dev # 0, block # 5760, count 26 ... 26 blocks written: OK in 2 ms
(6.3 MiB/s)
64 bytes read in 4 ms (15.6 KiB/s)
Header Version:1
11059264 bytes read in 137 ms (77 MiB/s)
MMC write: dev # 0, block # 17664, count 21600 ... 21600 blocks written: OK in
253 ms (41.7 MiB/s)
64 bytes read in 3 ms (20.5 KiB/s)
Header Version:1
4919360 bytes read in 65 ms (72.2 MiB/s)
MMC write: dev # 0, block # 158976, count 9608 ... 9608 blocks written: OK in
110 ms (42.6 MiB/s)
64 bytes read in 4 ms (15.6 KiB/s)
Header Version:1
10203200 bytes read in 128 ms (76 MiB/s)
MMC write: dev # 0, block # 240896, count 19928 ... 19928 blocks written: OK in
228 ms (42.7 MiB/s)
Saving Environment to MMC... Writing to MMC(0)... OK
mars_c906#
```

ls install/soc\_cv1812h\_wevb\_0007a\_emmc/ y<mark>t.bin</mark> partition\_emmc.xml **rawimages rootfs** rootfs.emmc **system** system.emmc **tools upgrade.zi**;

拔掉SD卡, 输入re重启进入系统

# USB烧录说明

# 1、使用前准备

### Python环境准备

- 1. 安装 Python3 (<u>https://www.python.org/</u>)
- 2. 使用下列步骤安装 Pip
  - · 下载 <u>https://bootstrap.pypa.io/get-pip.py</u>
  - ·使用"python get-pip.py"安装 pip
- 3. 使用 "python -m pip install pyserial" 安装 pyserial

### 烧录文件准备

文件位置 • chile@chile-VirtualBox:~/sophpi-huashan/cvi to the same cfg.emmc data elf fip.bin fw hot houshan/cvi 准备好烧录档案

```
    ├── fip.bin (bootloader + uboot)
    └── boot.emmc (minimal Linux image)
    └── rootfs.emmc (rootFS)
    └── system.emmc (rw 分区)
    └── cfg.emmc (config rw)
    └── partition_emmc.xml
```

# 2、操作过程

### a. Windows

- 1. 准备好固件目录 (由平台对应 upgrade.zip 解压出来)
- 2. 将平台的 Uart 连上 Host 并且将平台断电,并在命令提示字符下执行以下命令
- 3. cd \install\soc\_cv1812h\_wevb\_0007a\_emmc\tools\usb\_dl\
- 4. py mars\_dl.py --libusb --cpu riscv -image\_dir
- 5. 执行成功后,将平台上电

### b. Linux

- 1. 准备好固件目录 (由平台对应 upgrade.zip 解压出来)
- 2. 将平台的 Uart 连上 Host 并且将平台断电,并在终端机
- 3. cd /install/soc\_cv1812h\_wevb\_0007a\_emmc/tools/usb\_dl
- 4. py mars\_dl.py --libusb --cpu riscv -image\_dir
- 5. 执行成功后,将平台上电