

Linux CpISPTool User Manual

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Introduction

This document is the user guide of Linux CpISPTool.

1. Tool User Guide

1.1 Introduction of Tool architecture

CpISPToo_V1.0.0_X64.tar.gz is CpISPTool for 64 bit system.

CpISPToo_V1.0.0_X86.tar.gz is CpISPTool for 32 bit system.

1.2 How to use Tool

User needs to select the corresponding Tool package according to the current system. This example is using 64 bit system.

1> Copy CpISPToo_V1.0.0_X64.tar.gz to the directory on the system 【For example :
/home/user 】.

2> Unzip CpISPToo_V1.0.0_X64.tar.gz, and into the unzip directory.

User need create a new folder (For example : test) on the unzip folder
(CpISPToo_V1.0.0_X64), and copy FW (.bin) to the new folder.

```
mm1sd@mm1sd-Dell-System-Vostro-3450:~$ tar -xvf CpISPTool_V1.0.0_x64.tar.gz
CpISPTool_V1.0.0_x64/
CpISPTool_V1.0.0_x64/VerifyRet.txt
CpISPTool_V1.0.0_x64/libComm.so
CpISPTool_V1.0.0_x64/Comm/
CpISPTool_V1.0.0_x64/Comm/libRslcdTypeCUsb.so
CpISPTool_V1.0.0_x64/Comm/libRTUsb.so
CpISPTool_V1.0.0_x64/Comm/libHub2IIC.so
CpISPTool_V1.0.0_x64/Flash.dat
CpISPTool_V1.0.0_x64/IspLog.txt
CpISPTool_V1.0.0_x64/rs_digital_sign
CpISPTool_V1.0.0_x64/libIsp.so
CpISPTool_V1.0.0_x64/ISPTool
mm1sd@mm1sd-Dell-System-Vostro-3450:~$ cp -r test CpISPTool_V1.0.0_x64
mm1sd@mm1sd-Dell-System-Vostro-3450:~$ cd CpISPTool_V1.0.0_x64/
mm1sd@mm1sd-Dell-System-Vostro-3450:~/CpISPTool_V1.0.0_x64$
```

3> Modify file execution authority

Run `chmod -R 777 *` to get the Write authority.

If the red area is `rwX`, user don't need to run `chmod` command again, please skip to next step

```
mm1sd@mm1sd-Dell-System-Vostro-3450:~/CpISPTool_V1.0.0_x64$ ls -l
总用量 6500
drwxr-x--x 2 mm1sd mm1sd 4096 2月 19 16:06 Comm
-rwxr-x--x 1 mm1sd mm1sd 12329 2月 19 16:06 Flash.dat
-rwxr-x--x 1 mm1sd mm1sd 1288 2月 19 17:09 IspLog.txt
-rwxr-x--x 1 mm1sd mm1sd 855272 2月 19 16:06 ISPTool
-rwxr-x--x 1 mm1sd mm1sd 1163600 2月 19 16:06 libComm.so
-rwxr-x--x 1 mm1sd mm1sd 1522208 2月 19 16:06 libIsp.so
-rwxr-x--x 1 mm1sd mm1sd 3072576 2月 19 16:06 rs_digital_sign
drwxr-x--x 2 mm1sd mm1sd 4096 2月 19 17:06 test
-rwxr-x--x 1 mm1sd mm1sd 4 2月 19 17:08 VerifyRet.txt
mm1sd@mm1sd-Dell-System-Vostro-3450:~/CpISPTool_V1.0.0_x64$ chmod -R 777 *
mm1sd@mm1sd-Dell-System-Vostro-3450:~/CpISPTool_V1.0.0_x64$ ls -l
总用量 6500
drwxrwxrwx 2 mm1sd mm1sd 4096 2月 19 16:06 Comm
-rwxrwxrwx 1 mm1sd mm1sd 12329 2月 19 16:06 Flash.dat
-rwxrwxrwx 1 mm1sd mm1sd 1288 2月 19 17:09 IspLog.txt
-rwxrwxrwx 1 mm1sd mm1sd 855272 2月 19 16:06 ISPTool
-rwxrwxrwx 1 mm1sd mm1sd 1163600 2月 19 16:06 libComm.so
-rwxrwxrwx 1 mm1sd mm1sd 1522208 2月 19 16:06 libIsp.so
-rwxrwxrwx 1 mm1sd mm1sd 3072576 2月 19 16:06 rs_digital_sign
drwxrwxrwx 2 mm1sd mm1sd 4096 2月 19 17:06 test
-rwxrwxrwx 1 mm1sd mm1sd 4 2月 19 17:08 VerifyRet.txt
mm1sd@mm1sd-Dell-System-Vostro-3450:~/CpISPTool_V1.0.0_x64$
```

4> Run FW Update Command

4.1 Program bin file (Google.bin is a FW file name example)

Sudo .

/ISPTool --isp

--fw ./Google.bin

--bank 0

--comm 11

--ver --flash

```
localhost /usr/local/tmp/ISP/CpISPTool_V1.0.0_x64 # ls
ls      Flash.dat  Google.bin  IDCodeList.bin  Ispllog.txt  ISPTool  libComm.so  libIsp.so  rs_digital_sign
localhost /usr/local/tmp/ISP/CpISPTool_V1.0.0_x64 # ./ISPTool --isp --fw ./Google.bin --bank 0 --comm 11 --ver --flash
Realtek Linux ISP Utility V1.0.0 (C) 2019
Flash Name: W25Q80
ISP Progress: 100%
ProjectID: 0x3ff
FWVersion: 0x12
FWSubVersion: 0x34
Success
localhost /usr/local/tmp/ISP/CpISPTool_V1.0.0_x64 #
```

1.3 Command and Parameters

Command	Parameters	Describe	Example(Blue part is option, others are required)
isp	No	Program Normal FW	--isp --fw xxx
ispuser	No	Program User FW of Flash Partition<Boot+User>	--ispuser --fw xxx
comm	11	Setting communication channel : 11: DeviceI2C	--comm 11
ver	Read mode	flash: Read FW version from flash	--ver --flash
fw	fw path	Specify the FW file. File path supports relative and absolute paths	--fw xxx.bin
bank	bank index	Specify the FW updating start bank, default is 0	--bank 0
slave	slave address	Specify isp slave address for FW upadting 0 : auto detect isp salve address others : specify isp slave address	--slave 0 --slave 0x94