Linux CpISPTool User Manual

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First edition:　2019-02-20

Last updated:　2019-03-12

Version:　　　1.0.1

Document Version List

Document Version	Change Reason	Author	Date
1.0.0	Initial Release	Shadow_zhang	2019-02-20
1.0.1	Modify item 4 description	William	2019-03-12

Contents

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 boot bin file (boot.bin is a FW file name example)

sudo .

/ISPTool --isp

--fw ./boot.bin

--bank 0

--comm 11

--ver --flash

4.2 Program User bin file (user.bin is a FW file name example)

sudo ./ISPTool --ispuser

--fw ./user.bin

--bank 4

--flagaddr 0x4F8FE

--comm 11

--ver --reg

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 reg: Read FW version from reg	--ver --flash --ver --reg
fw	fw path	Specify the FW file. File path supports	--fw xxx.bin

		relative and absolute paths	
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
flagaddr	User flag	Specify user flag address	0x4F8FE