

# Purple Pi R1 FFMPEG的移植与测试

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## Purple Pi R1 FFMPEG的移植与测试

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# FFMPEG的移植与测试

## 下载源码

git clone <https://github.com/aaron201912/ffmpeg.git>

将ffmpeg-master.zip 放到Ubuntu下解压

```
1  industio@industio$: unzip -x ffmpeg-master.zip ./
```

注意：解压出来的ffmpeg目录需要放在project同一目录下。

## 配置屏参

将7寸MIPI屏参头文件拷贝到ffplayer/app/下。并修改ffplayer/app/sd20xpanel.c和 ui\_app/player/playerWnd.c，将屏参头文件包含进去。

CC0702I50R\_1024x600.h libssplayer.a main.c Makefile sd20xpanel.c sd20xpanel.o ss22x\_panel.h ss268\_panel.c ss268\_panel.o  
EQT700BKJ004P\_1024x600\_MIPI.h libssplayer.so main.o SAT070CP50\_1024x600.h sd20xpanel.h ss22x\_panel.c ss22x\_panel.o ss268\_panel.h ssplayer

```
1  industio@industio$: vi ffplayer/app/sd20xpanel.c
```

```
#if DISPLAY_1024_600  
//#include "SAT070CP50_1024x600.h"  
//#include "CC0702I50R_1024x600.h"  
#include "EQT700BKJ004P_1024x600_MIPI.h "  
#endif
```

```
1  industio@industio$: vi ui_app/player/playerWnd.c
```

```
//#include "SAT070CP50_1024x600.h"  
//#include "CC0702I50R_1024x600.h"  
#include "EQT700BKJ004P_1024x600_MIPI.h"  
#include "usbdetect.h"  
#include "frame.h"
```

## 编译

```

1  industio@industio$:industio@industio$: cd ffmpeg-4.1.3/
2  industio@industio$: sh config_for_ssd20x.sh
3  industio@industio$: make clean 【可选】
4  industio@industio$: make -j4
5  industio@industio$: make install

```

生成文件位于host目录下:

```
||dynamic include share static
```

## 验证

编译测试app

```

1  industio@industio$: cd ../ffplayer/app
2  industio@industio$: vi Makefile

```

注意:

CHIP ?= ssd20x (选择SSD20X)

```

CURRENT_PATH = $(shell pwd)
CROSS_COMPILE ?=arm-linux-gnueabi-
CC = $(CROSS_COMPILE)gcc
CPP = $(CROSS_COMPILE)g++
AR = $(CROSS_COMPILE)ar

ALKAID_PATH ?= ../../../../..
CHIP ?= ssd20x
LIBRARY ?= dynamic
DISPLAY ?= panel
GIT_COMMIT_INFO:="ssplayer library version: git_commit.$(shell cd
t="%h") build_time.$(shell date +%Y%m%d)"

ifeq ($(CHIP),ssd20x)
    #$(shell echo "choose chip ssd20x" > $(shell tty))
else ifeq ($(CHIP),ss268)
    #$(shell echo "choose chip ss268" > $(shell tty))
else ifeq ($(CHIP),ss22x)
    #$(shell echo "choose chip ss22x" > $(shell tty))
else
    $(error invalid chip type)
endif

```

```

1  industio@industio$:make clean
2  industio@industio$:make -j4

```

编译生成可执行文件ssplayer

```

wxquan@wt_rd_server: /work/ssd201/SSD20X-2D06/ido-sbc2d06-sdk/ffmpeg/ffplayer/app$ ls
BQT700BKJ004P_1024x600_MIPI.h  libssplayer.so  main.o  SAT070CP50_1024x600.h  sd20xpanel.h  ss22x_panel.c  ss22x_panel.o  ss268_panel.h  ssplayer
libssplayer.a                  main.c          Makefile  sd20xpanel.c          sd20xpanel.o  ss22x_panel.h  ss268_panel.c  ss268_panel.o
wxquan@wt_rd_server: /work/ssd201/SSD20X-2D06/ido-sbc2d06-sdk/ffmpeg/ffplayer/app$

```

将所需的库和执行文件拷贝至开发板。

ssplayer: ffplayer/app

clock.avi & cuc.flv: /resources/

libssplayer.so: ffplayer/app/

ffmpeg-4.1.3/host/dynamic/下的所有动态库，拷贝到开发板/usr/lib目录下

注意：拷贝之前先查看MMA大小，一般MMA大小设置为16M左右及以上，看需求设置

MMA大小设置请参考：[http://doc.industio.com/docs/ssd20x-system/page\\_8](http://doc.industio.com/docs/ssd20x-system/page_8)

MMA设置结束重新编译更新系统

```

CHIP = i4m
BOARD = 011A
BOARD_NAME = SSC011A-S01A
PRODUCT = nvr
TOOLCHAIN = glibc
TOOLCHAIN_VERSION = 8.2.1
KERNEL_VERSION = 4.9.84
LIBC = libc-2.28
BUSYBOX = busybox-1.20.2-arm-linux-gnueabi-hf-glibc-8.2.1-dynamic
KERNEL_CONFIG = glibc
IMAGE_CONFIG = spinand.ubifs.p2.partition.config
CUSTOMER_OPTIONS = 011a.201_options.mk
CUSTOMER_TAILOR = nvr_i2m_display_glibc_tailor.mk
MMAP = MMAP_I2M_64M.h
MHAL = i2m
MERGE_BOOT = TRUE
BOOTLOGO_FILE = sigmastar1024_600.jpg
BOOTLOGO_ADDR = E_LX_LOGO_RESERVED_FB
DISP_OUT_NAME = CC0702I50R
EXBOOTARGS =
KERNEL_BOOT_ENV = LX_MEM=$(KERNEL_MEMLEN) mma_heap=mma_heap_name0,miu=0 sz=0x1000000 mma_memblock_re
move=1 highres=off
TOOLCHAIN_REL = arm-linux-gnueabi-hf-

```

## 播放测试

```
1 # ./ssplayer ./cuc.flv
```