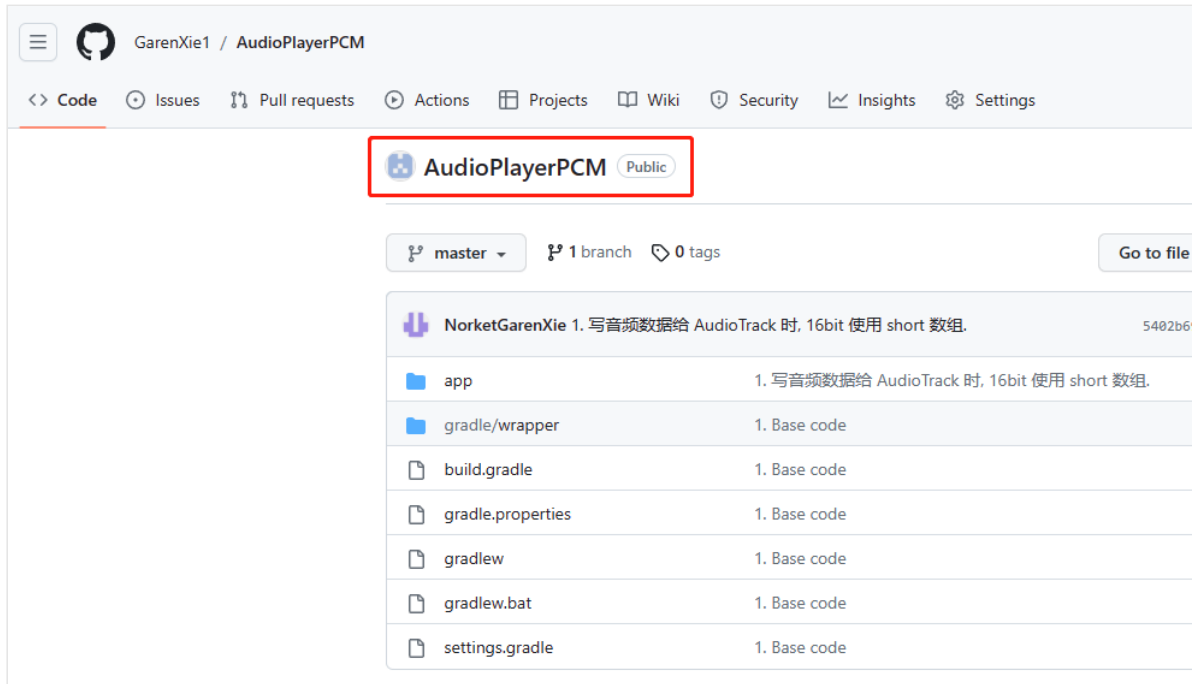


1. Garen Github 代码

- [GarenXie1/AudioPlayerPCM: Android Play Audio PCM file using AudioTrack API. \(github.com\)](https://github.com/GarenXie1/AudioPlayerPCM)



2. 运行 APP 的步骤

- 需要手动解决如下问题
 - [文件读写权限报错\(Permission denied\)](#)
 - [UDP 绑定 报错: java.net.BindException: bind failed:](#)
- 从 仓库中, 获取到 **data.pcm 音频格式: 单声道, 8k 采样率, 16bit 数据深度.**

```
1 adb root
2 adb remount
3 adb push data.pcm /storage/emulated/0/audioFile/
4 adb push data.pcm /data/
```

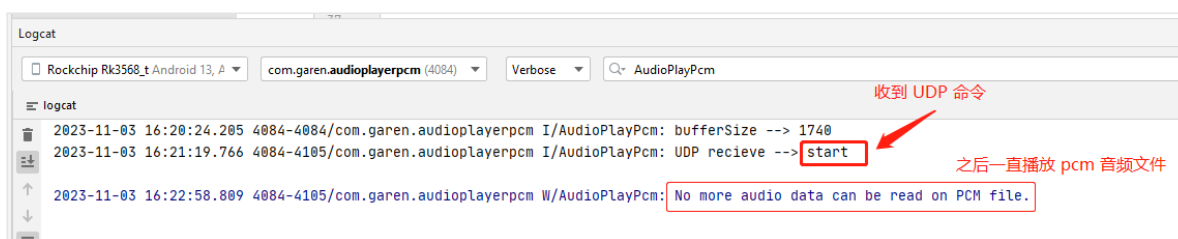
```
1 # Android 13 手动解决 读写文件权限问题
2 chown media_rw:media_rw /data/data.pcm
3 chmod 777 /data/data.pcm
4 ls -l /data/data.pcm
```

```
console:/ # ls -l /data/data.pcm
-rwxrwxrwx 1 media_rw media_rw 1584960 2023-11-03 07:50 /data/data.pcm
console:/ #
```

1 # 第二步：使用 UDP 工具来发送 "start" 命令



1 # 第三步：板子接收到 start 命令后，将会播放 pcm 音频。



3. 运行报错

3.1. 文件读写权限报错(Permission denied)

- 报错信息

```
1 W/System.err: java.io.FileNotFoundException:
  /storage/emulated/0/audioFile/data.pcm (Permission denied)
2 W/System.err: at java.io.FileInputStream.open(Native Method)
3 W/System.err: at java.io.FileInputStream.<init>(FileInputStream.java:146)
4 W/System.err: at java.io.FileInputStream.<init>(FileInputStream.java:99)
5 W/System.err: at
  com.garen.audioplayerpcm.AudioPlayPcm.run(AudioPlayPcm.java:41)
6 W/System.err: at java.lang.Thread.run(Thread.java:761)
```

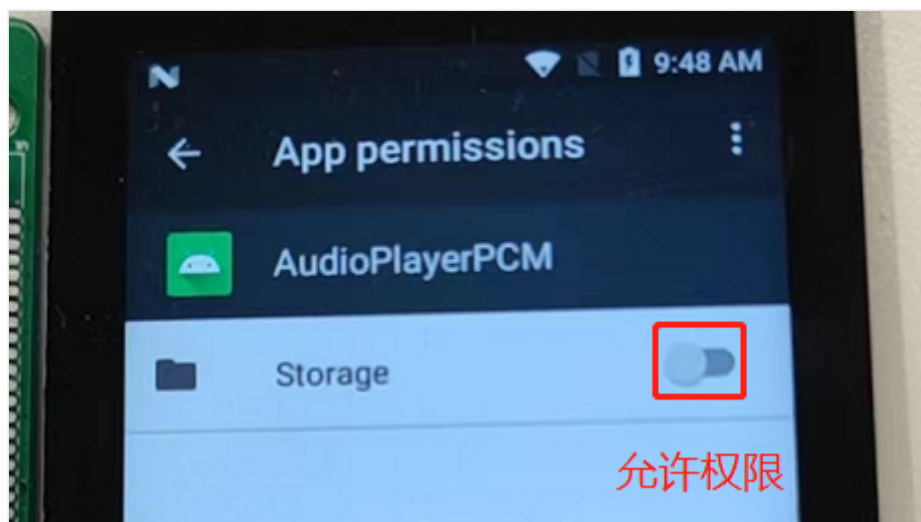
3.1.1. Android 7.1.2 解决办法

- 解决办法
 - 修改 `app/src/main/AndroidManifest.xml`

```
1 <uses-permission
  android:name="android.permission.READ_EXTERNAL_STORAGE" />
2 <uses-permission
  android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
```



- 手动允许权限 (在 Android 7.1.2 可以手动打开 storage 访问权限).



3.1.2. Android 13 解决办法

- 在 Android 13, RK3568 中, 解决办法如下:

```
1 chown media_rw:media_rw /data/data.pcm
2 chmod 777 /data/data.pcm
3 ls -l /data/data.pcm
```

```

console:/ #
console:/ # ls -l /data/data.pcm
-rwxrwxrwx 1 media_rw media_rw 1584960 2023-11-03 07:50 /data/data.pcm
console:/ #
console:/ #

```

3.2. UDP 绑定 报错 : java.net.BindException: bind failed:

- 报错信息

```

W/System.err: java.net.BindException: bind failed: EADDRNOTAVAIL (Cannot assign requested address)
W/System.err: at libcore.io.IoBridge.bind(IoBridge.java:149)
W/System.err: at java.net.PlainDatagramSocketImpl.bind0(PlainDatagramSocketImpl.java:105)
W/System.err: at java.net.AbstractPlainDatagramSocketImpl.bind(AbstractPlainDatagramSocketImpl.java:112)
W/System.err: at java.net.DatagramSocket.bind(DatagramSocket.java:414)
W/System.err: at java.net.DatagramSocket.<init>(DatagramSocket.java:264)
W/System.err: at java.net.DatagramSocket.<init>(DatagramSocket.java:321)
W/System.err: at com.garen.audioplayerpcm.AudioPlayPcm.recieveUDPCommand(AudioPlayPcm.java:104)
W/System.err: at com.garen.audioplayerpcm.AudioPlayPcm.run(AudioPlayPcm.java:62)
W/System.err: at java.lang.Thread.run(Thread.java:1012)
W/System.err: Caused by: android.system.ErrnoException: bind failed: EADDRNOTAVAIL (Cannot assign requested address)
W/System.err: at libcore.io.Linux.bind(Native Method)
W/System.err: at libcore.io.ForwardingOs.bind(ForwardingOs.java:170)

```

Android 13

- 解决

原因: 没有获取 WIFI IP 地址, 获取 WIFI IP 写错了.

```

wlan0    Link encap:Ethernet  HWaddr e8:24:04:eb:f9:38  Driver rtl88x2
inet addr:192.168.1.174  Bcast:192.168.1.255  Mask:255.255.255
inet6 addr: fe80::c060:f5d1:e713:659f/64  Scope: Link
UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
RX packets:26  errors:0  dropped:0  overruns:0  frame:0
TX packets:31  errors:0  dropped:0  overruns:0  carrier:0
collisions:0  txqueuelen:1000
RX bytes:912760  TX bytes:85688

```

```

private static final String playFile = "data.pcm";
+ private static final String mySelfIPAddress = "192.168.1.174";
private int minBufferSize = 0;

```