

# Why

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集成组编译差分包不能依赖源码,所以需要从Android 源码中提取OTA DIFF 工具,给到集成组,用于后面制作差分包

# What

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Android 源码差分包工具主要包括如下几部分.

- py脚本:  
ota\_from\_target\_files.py  
common.py  
check\_ota\_package\_signature.py  
blockimgdiff.py  
...
- 签名文件

```
build/make/target/product/security
```

- 依赖工具

```
out/host/linux-x86/bin
```

```
signapk.jar  
  
imgdiff  
simg2img  
mkbootfs  
mkbootimg  
...
```

- 运行环境

```
openJDK 版本
```

# How

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1. 编译对应的源码项目,生成out目录相关工具.
2. mkdir otadifftools目录.
3. copy build/tools/releasetools/\* 到otadifftools目录
4. copy build/make/target/product/security/\* 到otadifftools目录
5. copy out/host/linux-x86/bin/\* 到otadifftools目录
6. copy out/host/linux-x86/framework/\* 到otadifftools目录

7. copy out/host/linux-x86/lib/ 和 out/host/linux-x86/lib64/ 到otadiffutils目录
8. copy prebuilts/jdk/jdk11/\* 到 otadiffutils目录(jdk本版根据实际情况)
9. 在otadiffutils创建setup.sh 脚本

```
#!/bin/bash

workdir=$(cd $(dirname $0); pwd)
#echo "pwd is $workdir"
ANDROID_JAVA_HOME=$workdir/prebuilts/jdk/jdk11/linux-x86
export ANDROID_JAVA_HOME=$workdir/prebuilts/jdk/jdk11/linux-x86
export JAVA_HOME=$ANDROID_JAVA_HOME
export CLASSPATH=$ANDROID_JAVA_HOME/lib
export PATH=${ANDROID_JAVA_HOME}/bin:$PATH
```

## 工具使用

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1. cd otadiffutils && source setup.sh
2. 执行ota\_from\_target\_files 命令

```
./build/tools/releasetools/ota_from_target_files.py
-k build/make/target/product/security/testkey
-p build/host/
-i /home/huzhongyang/code/android11_init/out/target/OTA_NEW/aosp_coral-target_files-BN012101.zip
/home/huzhongyang/code/android11_init/out/target/OTA_NEW/aosp_coral-target_files-BN012102.zip
/home/huzhongyang/code/android11_init/out/target/OTA_NEW/aosp_coral-BN012101-BN012102.zip
```