[FAQ07293]如何用jar包代替java代码编译

[DESCRIPTION]

有时不希望某个模块的java代码被人看到,希望是以jar包release,可以按以下方式修改

注意:最终是编译成jar包的模块才能这样做

[KEYWORD]

jar

java

编译

[SOLUTION]

1. 先完整编译一遍工程(任意eng/user),然后保存要替换java代码的jar包,在alps/out/target/common/obj/JAVA_LIBRARIES/xxx__intermediates目录下的classes.jar
javalib.jar

2. 请将以下文件保存成 java_library_prebuilt.mk,并放在alps/build/core/目录下面:

注意:有11处需要tab键开头(make语法对命令需要tab键开头,但网站不支持tab键),请保存成文件后打开编辑,将11处(以下有标志)重新用tab键处理一遍。

##Writen by guangye.yang@mediatek.com ##

LOCAL SRC FILES :=

ifdef LOCAL_IS_HOST_MODULE

\$(error \$(LOCAL_PATH): Just for target java library)

endif

LOCAL_MODULE_SUFFIX := \$(COMMON_JAVA_PACKAGE_SUFFIX)

LOCAL_MODULE_CLASS := JAVA_LIBRARIES LOCAL_BUILT_MODULE_STEM := javalib.jar

intermediates. COMMON := \$(call local-intermediates-dir, COMMON)

full_classes_jar := \$(intermediates.COMMON)/classes.jar

common_javalib. jar := \$(intermediates.COMMON)/\$(LOCAL_BUILT_MODULE_STEM)

LOCAL_INTERMEDIATE_TARGETS += \$(full_classes_jar) \$(common_javalib.jar)

```
ifneg (true, $(WITH DEXPREOPT))
LOCAL_DEX_PREOPT :=
else
ifeq (,$(TARGET_BUILD_APPS))
ifndef LOCAL_DEX_PREOPT
LOCAL DEX PREOPT := true
endif
end i f
end if
ifeq (false, $(LOCAL_DEX_PREOPT))
LOCAL_DEX_PREOPT :=
endif
include $(BUILD_SYSTEM)/base_rules.mk
$(cleantarget): PRIVATE_CLEAN_FILES += $(intermediates.COMMON)
$(full classes jar) : $(LOCAL PATH)/classes. jar | $(ACP)
$(call copy-file-to-target) #注意:这里必须以tab键开头
$(common_javalib.jar): $(LOCAL_PATH)/$(LOCAL_BUILT_MODULE_STEM) | $(full_classes_jar)
$(ACP)
$(call copy-file-to-target) #注意:这里必须以tab键开头
ifdef LOCAL_DEX_PREOPT
dexpreopt_boot_jar_module := $(filter $(LOCAL_MODULE), $(DEXPREOPT_BOOT_JARS_MODULES))
ifneq ($(dexpreopt_boot_jar_module),)
dexpreopted_boot_jar :=
$(DEXPREOPT_BOOT_JAR_DIR_FULL_PATH)/$(dexpreopt_boot_jar_module)_nodex.jar
$(LOCAL_BUILT_MODULE) : $(dexpreopted_boot_jar) | $(ACP)
$(call copy-file-to-target) #注意:这里必须以tab键开头
dexpreopted boot odex :=
$(DEXPREOPT_BOOT_JAR_DIR_FULL_PATH)/$(dexpreopt_boot_jar_module).odex
built odex := $(basename $(LOCAL BUILT MODULE)).odex
$(built_odex) : $(dexpreopted_boot_odex) | $(ACP)
$(call copy-file-to-target) #注意:这里必须以tab键开头
else
built_odex := $(basename $(LOCAL_BUILT_MODULE)).odex
$(built_odex): PRIVATE_MODULE := $(LOCAL_MODULE)
$(built odex) : $(DEXPREOPT BOOT ODEXS)
$(built_odex) : $(common_javalib.jar) | $(DEXPREOPT) $(DEXOPT)
@echo "Dexpreopt Jar: $(PRIVATE_MODULE) ($@)" #注意:这里必须以tab键开头
$(hide) rm -f $@ #注意:这里必须以tab键开头
@mkdir -p $(dir $@) #注意:这里必须以tab键开头
$(call dexpreopt-one-file, $<, $@) #注意:这里必须以tab键开头
```

```
$(LOCAL_BUILT_MODULE): $(common_javalib.jar) | $(ACP) $(AAPT) $(call copy-file-to-target) #注意:这里必须以tab键开头 ifneq (nostripping, $(LOCAL_DEX_PREOPT)) $(call dexpreopt-remove-classes.dex, $@) #注意:这里必须以tab键开头 endif endif else $(LOCAL_BUILT_MODULE): $(common_javalib.jar) | $(ACP) $(call copy-file-to-target) #注意:这里必须以tab键开头 endif
```

- 3. 在alps/build/core/config.mk里添加:
 BUILD_JAVA_LIBRARY_PREBUILT:= \$(BUILD_SYSTEM)/java_library_prebuilt.mk
- 4. 删除对应的java代码及对应的Android.mk,然后在当前目录创建新的Android.mk,并复制第1步备份的2只文件到Android.mk旁边(注意,文件名不能修改,否则无法识别!!!),新的Android.mk编写如下:

LOCAL_PATH := \$(call my-dir) include \$(CLEAR_VARS)

LOCAL_MODULE := services
LOCAL_MODULE_PATH := \$(TARGET_OUT_JAVA_LIBRARIES)

include \$(BUILD_JAVA_LIBRARY_PREBUILT)

- 5. 重新完整的编译工程(任意eng/user),下载查看效果
- **6.** 重要提示,由于第1步保存的classes. jar是没有经过proguard,流出去很容易被反编译,请自行做proguard,但是请不要把接口proguard,否则编译失败!