

android studio 使用NDK和swig编译c++示例

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原文 http://blog.csdn.net/qq_16064871/article/details/78420968

搜索



使用NDK和swig工具来批量编译c++代码还是很方便的。我之前写过一篇eclipse版本的，现在终于有空把android studio的版本弄好。eclipse版本地址：Android ndk开发swig编译jni接口 (<http://www.voidcn.com/article/p-nzpemuwm-nu.html>)。在这篇博客我会介绍相关配置，生成自动生成接口jar以及so库。这期间涉及很多踩坑，做好准备。本篇博客篇幅比较长。

官方网址：<http://www.sureshjoshi.com/mobile/android-ndk-in-android-studio-with-swig/>

swig官网：<http://www.swig.org/exec.html>

swig工具下载网址：<http://www.swig.org/download.html>

我的博客资源提供的swig工具资源：http://download.csdn.net/download/qq_16064871/10046580

这篇博客的代码：http://download.csdn.net/download/qq_16064871/10044371

GitHub 的大神写示例代码：<https://github.com/sureshjoshi/android-ndk-swig-example>

1、配置篇

系统环境变量的配置，加在path那里

E:\Android\sdk\platform-tools; 方便使用adb命令

C:\Program Files\Android\Android Studio\gradle\gradle-2.14.1;

F:\software\swigwin-3.0.2; swig编译需要

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E:\Android\sdk\ndk-bundle; 这个是android studio 的自动下载的NDK目录，编译生成so需要

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有了这些，我们可以在Android studio 的Terminal命令行操作。

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注意：swig工具包解压就行，然后配置在path路径即可

2、编译接口jar

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编译生成接口jar的build配置如下

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```
// For this to work, it's assumed SWIG is installed
// TODO: This only works when called from Command Line (gradlew runSwig)
task runSwig(type:Exec, dependsOn: ['createCoreWrapperDir']) {

    String osName = System.getProperty("os.name").toLowerCase();
    if (osName.contains("windows")) {
        workingDir '/src/main/jni' // This implicitly starts from $(projectDir) evidently
        commandLine 'cmd', '/c', 'swig'
        args '-c++', '-java', '-package', 'com.swig.test', '-outdir', coreWrapperDir.absolutePath, 'Unix.i'
    }
    else {
        commandLine 'swig'
        args '-c++', '-java', '-package', 'com.swig.test', '-outdir', coreWrapperDir.absolutePath, "${projectDir}/src/main/jni/Unix.i"
    }
}
```

有了这个配置：

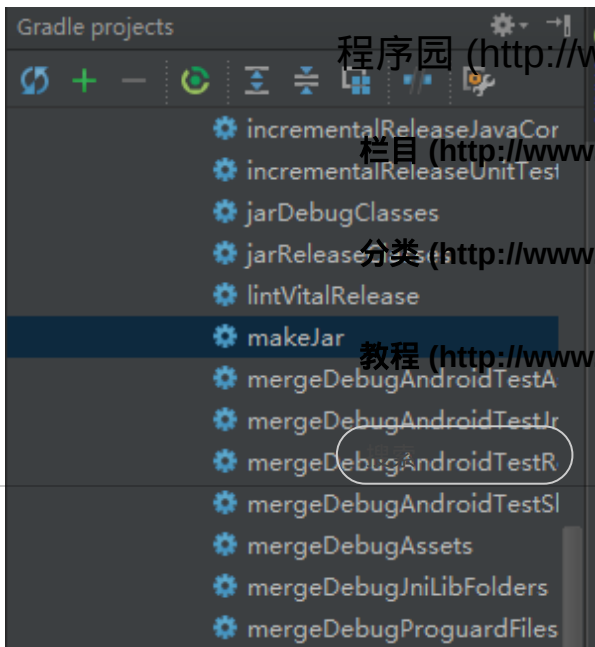
可以在项目找到grade project 里面的 other 里面找到你的配置

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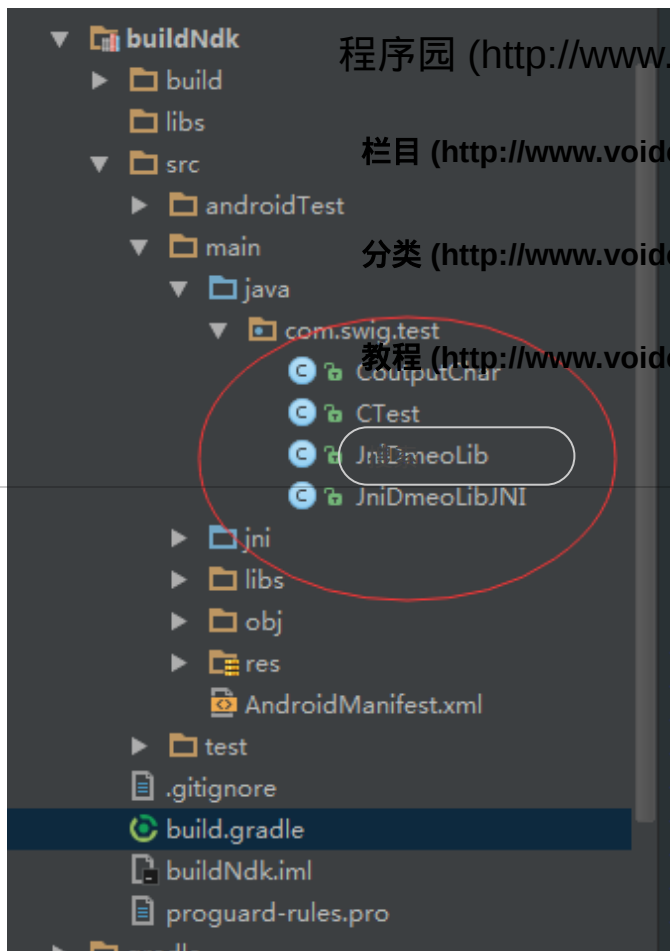
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编译生成接口的包名，后面使用时不能再改了，因为生成so是根据jni文件下下面Unix_wrap.cxx这个文件生成的。里面类的函数已经包括编译的包名，所以变了包名，使用时报错。

生成jar时候记得在jni那个类里面加上加载库的代码，（这个先提前说了）

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```

public class JniDmeoLib {
    static {
        System.loadLibrary("JniDmeoLib");
    }
    public final static native long new_CTest();
    public final static native void delete_CTest(long jarg1);
    public final static native double CTest_getTest(long jarg1, CTest jarg1_, double jarg2, double jarg3);
    public final static native long new_CoutputChar();
    public final static native void delete_CoutputChar(long jarg1);
    public final static native String CoutputChar_getfileName(long jarg1, CoutputChar jarg1_);
    public final static native void CoutputChar_setfileName(long jarg1, CoutputChar jarg1_, String jarg2);
}

```

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下面看一下完整的ndkBuild的配置

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apply plugin: 'com.android.library'

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android {

compileSdkVersion 24

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buildToolsVersion "24.0.1"

defaultConfig {

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minSdkVersion 15

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更多

targetSdkVersion 24

versionCode 1

versionName "1.0.0"

搜索

ndk {

moduleName "JniDmeoLib"

abiFilters "armeabi"

}

}

lintOptions{

abortOnError false

}

buildTypes {

release {

minifyEnabled false

proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'

}

}

}

dependencies {

compile fileTree(dir: 'libs', include: ['*.jar'])

testCompile 'junit:junit:4.12'

compile 'com.android.support:appcompat-v7:24.2.1'

}

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```
// Location of where to store the jni wrapped files
def coreWrapperDir = new File("${projectDir}/src/main/java/com/swig/test")
```

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```
task createCoreWrapperDir {
    coreWrapperDir.mkdirs()
}
```

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```
// For this to work,
// TODO: This only works when called from Command Line (gradlew runSwig)
```

```
task runSwig(type:Exec, dependsOn: ['createCoreWrapperDir']) {
```

搜索

```
String osName = System.getProperty("os.name").toLowerCase();
if (osName.contains("windows")) {
    workingDir '/src/main/jni' // This implicitly starts from $(projectDir) evidently
    commandLine 'cmd', '/c', 'swig'
    args '-c++', '-java', '-package', 'com.swig.test', '-outdir', coreWrapperDir.absolutePath, 'Unix.i'
}
else {
    commandLine 'swig'
    args '-c++', '-java', '-package', 'com.swig.test', '-outdir', coreWrapperDir.absolutePath, "${projectDir}/src/main/jni/Unix.i"
}
}
```

2、生成so库

在android studio 的Terminal命令终端去找到你要编译项目下的jni目录

然后输入ndk-build 即可，如下图

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代码 (<http://www.voidcn.com/code/>)

更多 ▾

```
D:\SwigNdkDemo>cd D:\SwigNdkDemo\buildNdk\src\main\jni
```

搜索

```
D:\SwigNdkDemo\buildNdk\src\main\jni>ndk-build
```

```
Android NDK: APP_PLATFORM not set. Defaulting to minimum supported version android-14.
Android NDK: WARNING: APP_PLATFORM android-14 is higher than android:minSdkVersion 1 in D:/S
wigNdkDemo/buildNdk/src/main/AndroidManifest.xml. NDK binaries will *not* be comptible wit
h devices older than android-14. See https://android.googlesource.com/platform/ndk/+master/
docs/user/common_problems.md for more information.
[armeabi] Install      : libJniDmeoLib.so => libs/armeabi/libJniDmeoLib.so
```

```
D:\SwigNdkDemo\buildNdk\src\main\jni>
```

3、打包jar

后面我又弄了一个library打包jar。把之前那个生成目录代码，原封不动拷贝到那个工程，记得包名也不变。

然后配置

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```
task makeJar(type: Copy) {
    delete 'libs/JniDmeoLib.jar'
    from('build/intermediates/bundles/release/')
    into('libs/')
    include('classes.jar')
    rename('classes.jar', 'JniDmeoLib.jar')
}
```

makeJar.dependsOn(build)

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这个配置也是可以在other那里找到的。

搜索

4、测试jar和so

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5、过程中遇到问题

包括编译其他项目

Error:Execution failed for task ':app:runSwig'.

> Process 'command 'cmd"' finished with non-zero exit value 1

出现这个错误的原因是

swig没有在系统环境变量里面path配置。

E:\Android\Sdk\ndk-bundle\build\core\add-application.mk

Error:(101) *** Android NDK: Aborting... . Stop.

Error:Execution failed for task ':app:compileDebugNdk'.

> com.android.ide.common.process.ProcessException: org.gradle.process.internal.ExecException:

Process 'command 'E:\Android\sdk\ndk-bundle\ndk-build.cmd"' finished with non-zero exit value 2

这个错误主要是项目的目录层级太深，移动一下即可。这个问题比较奇怪。

编译so，就是使用Terminal命令行在进入要编译项目的jni文件夹。然后输入ndk-build，一回车就可以了。

F:\SVN Android studio\Android_Lib>cd F:\SVN Android studio\Android_Lib\jnidemo\src\main\jni

F:\SVN Android studio\Android_Lib\jnidemo\src\main\jni>ndk-build

Android NDK: Your Android application project path contains spaces: 'F: . studio/Android_Lib/jnidemo/src/main'

Android NDK: The Android NDK build cannot work here. Please move your project to a different location.

E:\Android\sdk\ndk-bundle\build\..\build\core\build-local.mk:158: *** Android NDK: Aborting. . Stop.

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出现上面这个错误，就是说你的工程需要换个目录编译，一般来说目录层级不能太深
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编译成功的结果

栏目 (http://www.voidcn.com/column) 标签 (http://www.voidcn.com/tag)

F:\Android_Lib>cd F:\Android_Lib\jnidemo\src\main\jni

F:\Android_Lib\jnidemo\src\main\jni>ndk-build

分类 (http://www.voidcn.com/cata) 公众号 (http://www.voidcn.com/public)

Android NDK: APP_PLATFORM not set. Defaulting to minimum supported version android-14.

Android NDK: WARNING: APP_PLATFORM android-14 is higher than android:minSdkVersion 1 in

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F:/Android_Lib/jnidemo/src/main\jni>ndk-build

with devices older than android-14. See

https://android.googlesource.com/platform/ndk/+/-/master/docs/user/common_problems.md for more information.

搜索

[arm64-v8a] Install : libcurvelib.so => libs/arm64-v8a/libcurvelib.so

[x86_64] Install : libcurvelib.so => libs/x86_64/libcurvelib.so

[mips64] Install : libcurvelib.so => libs/mips64/libcurvelib.so

[armeabi-v7a] Install : libcurvelib.so => libs/armeabi-v7a/libcurvelib.so

[armeabi] Install : libcurvelib.so => libs/armeabi/libcurvelib.so

[x86] Install : libcurvelib.so => libs/x86/libcurvelib.so

[mips] Install : libcurvelib.so => libs/mips/libcurvelib.so

其他代码就不贴了。可能会有一些疏漏。还是自己尝试编译跑一遍好。

我博客关于swig文章还是有几篇，有需要的可以看一下。



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