MICROOH 麦可网

Android-从程序员到架构师之路

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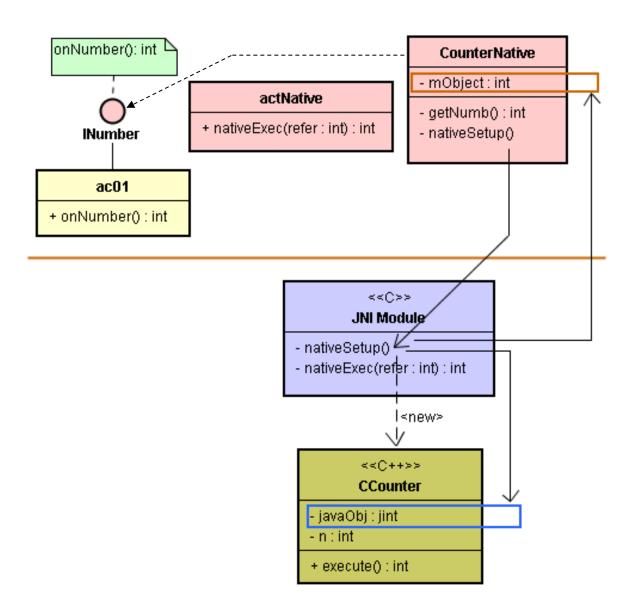
C04_e

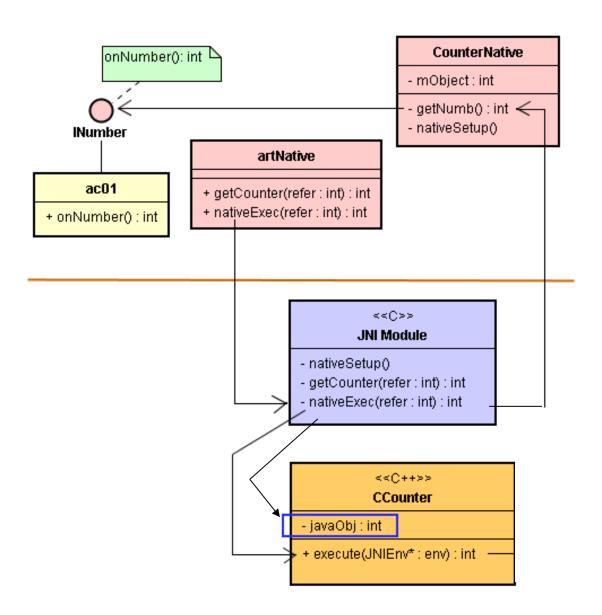
JNI:必要的优化设计(e)

By 高煥堂

结语

在此范例里,ac01类和actNative开发者知道CounterNative类的内涵,而且CounterNative的mObject必须public,才能取得co的指针。

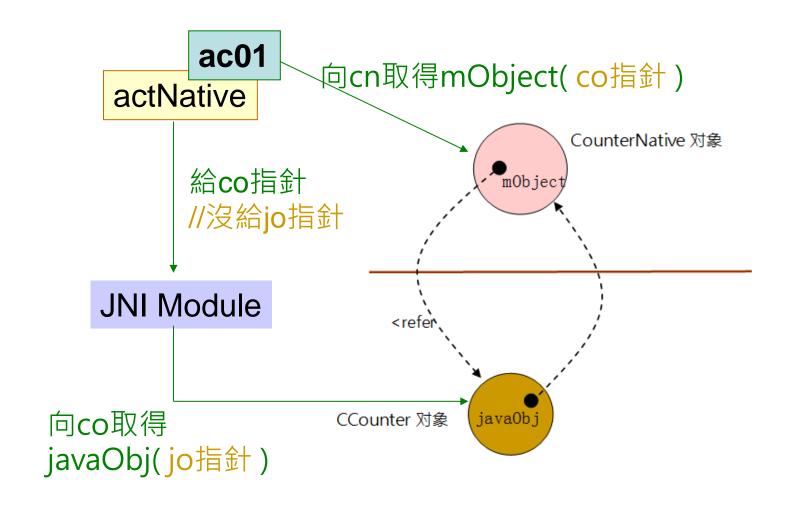




```
// ac01.java
// ......
public class ac01 extends Activity
                  implements OnClickListener, INumber {
 private CounterNative cn;
 @Override public void onCreate(Bundle savedInstanceState){
  //....--
  cn = new CounterNative();
  cn.setOnNumber(this);
```

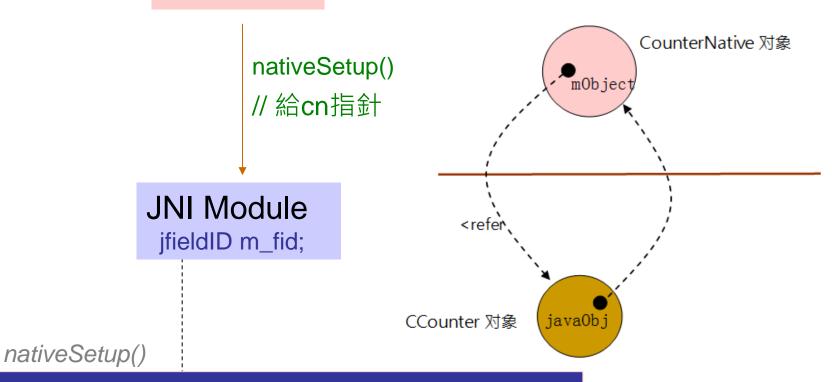
```
@Override public void onClick(View v) {
      int sum;
      switch(v.getId()){
      case 101:
            sum = actNative.nativeExec( cn.mObject );
            setTitle("Sum = " + sum);
            break;
      case 103:
            finish(); break;
@Override public int onNumber() { return 17; }
```

```
// CounterNative.java
package com.misoo.counter;
public class CounterNative {
        public int mObject;
        private INumber listener;
       static {
             System.loadLibrary("MyCounter8"); }
        public CounterNative()
                     { nativeSetup(); }
        public void setOnNumber(INumber plis)
                      { listener = plis; }
        private int getNumb()
                      { return listener.onNumber();
        private native void nativeSetup();
```

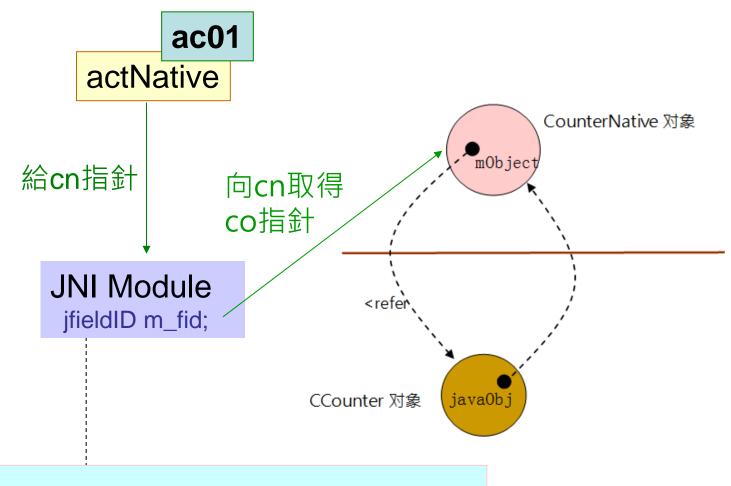


- 如果CouterNative的mObject属性改为 private时, ac01或actNative就拿不到 mObject属性值了。
- 只能将cn指针传递给C函数。
- 此时,必须有个前置的预备动作(setup)了。





```
// ac01.java
// .....
@Override public void onClick(View v) {
      int sum;
      switch(v.getId()){
      case 101:
             sum = actNative.nativeExec( cn );
             setTitle("Sum = " + sum);
             break;
      case 103:
            finish(); break;
@Override public int onNumber() { return 17; }
```



jlong co =
 (jlong)env->GetObjectField(cnObj, m_fid);

静态对静态

CounterNative

- mObject : int

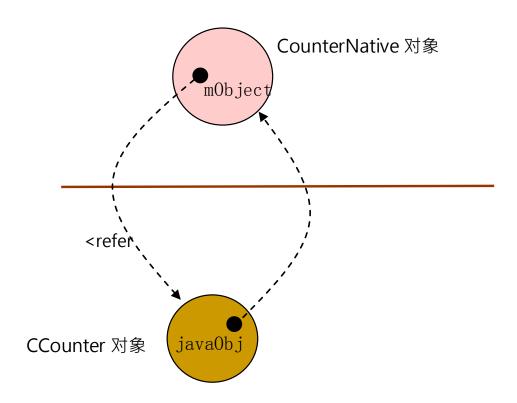
- nativeSetup(n : int)

JNI Module

jfieldID m_fid;

nativeSetup()

动态对动态



Thanks...



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