#### jar里面的jar能否被调用

**笔记本:** Java

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**作者:** .Yan良伟

mpi包在打包时会把jar打进去,于是产生了一个疑问:比如有一个commons-lang-2.2.jar被打进了jar中,项目也引用了"commons-lang-2.2.jar"。那么在运行时到底调用mpi包中的"commons-lang-2.2.jar"还是调用项目中引用的"commons-lang-2.2.jar"?

# 测试过程

### 准备common-test-in.jar

#### 新建CommonTestIn工程

```
CommonTestIn

The JRE System Library [JavaSE-1.8]

The src

The common common.
```

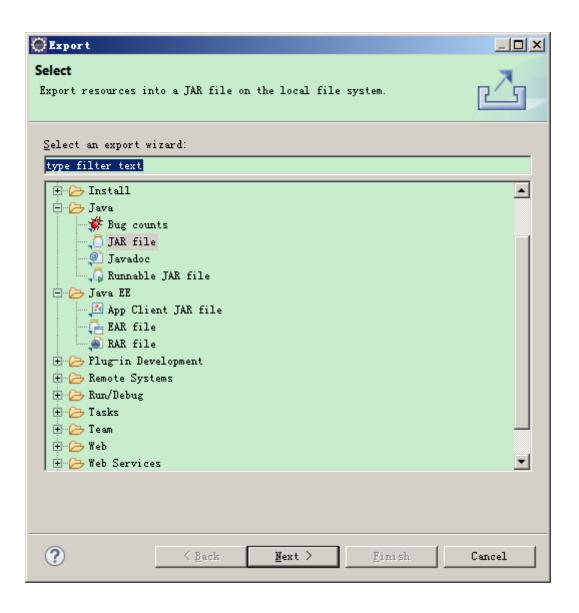
Common.java的代码如下:

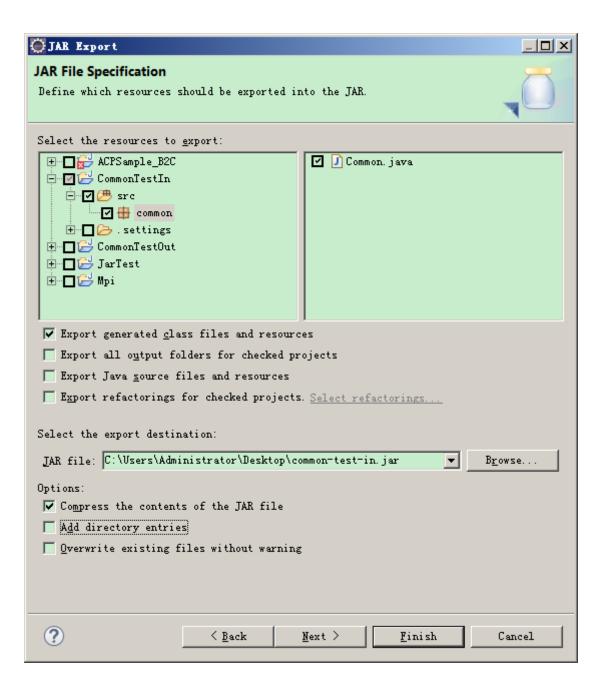
```
package common;

public class Common {

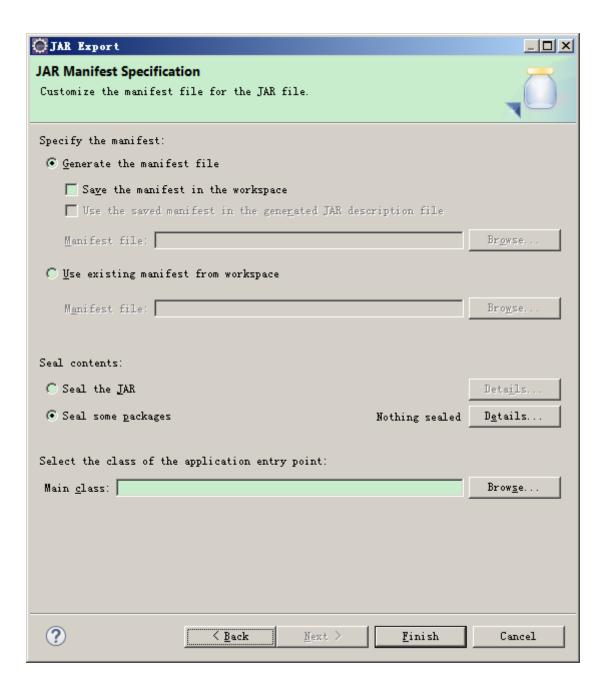
    public static String common_test() {
        return "I am common in";
    }
}
```

### **打common-test-in.jar**









# 准备common-test-out.jar

#### 新建CommonTestOut工程

• Common.java类的包路径跟common-test-in.jar中的是一样的



Common.java的代码如下:

```
package common;

public class Common {

    public static String common_test() {
        return "I am common out";
    }
}
```

#### **打common-test-out.jar**

步骤跟"打common-test-in.jar"一样。

## 准备mpi.jar

#### 新建Mpi工程

• 将上面打的common-test-in.jar放进去

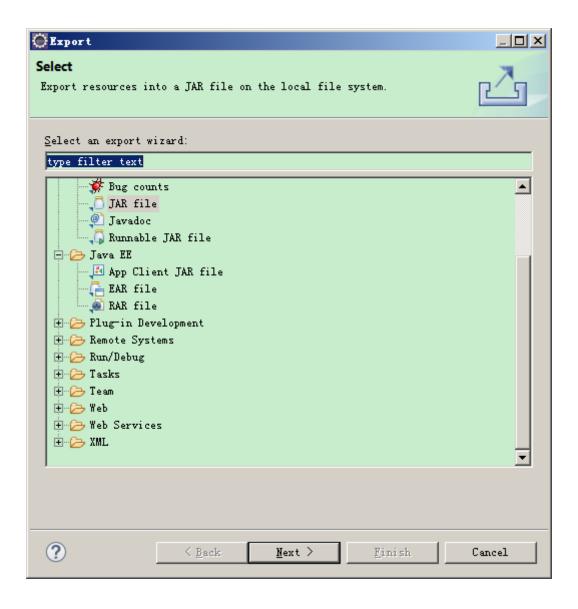
```
| Mpi | | Mpi | | Mpi |
```

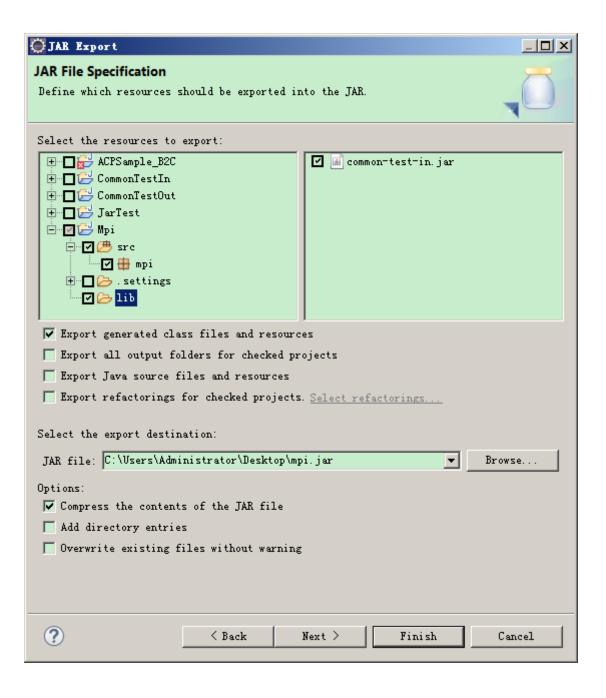
• MpiTest.java的代码如下:

```
package mpi;
import common.Common;

public class MpiTest {
    public String getCommonMsg() {
        return Common.common_test();
    }
}
```

### 打mpi.jar









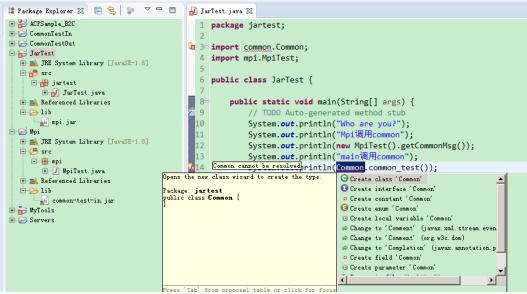
### 准备测试工程JarTest

• 将mpi.jar放进工程里



• JarTest.java的代码如下:

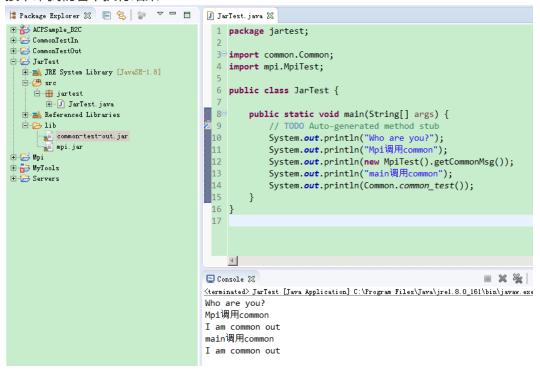
• 在只引用mpi.jar的情况下,提示类缺失:



• 导入common-test-out.jar后,编译正常:

```
🖺 Package Explorer 🛭 🖹 Ş 🦆 🔻 🗆
                                         🚺 JarTest. java 🕱
# ACPSample_B2C
                                          1 package jartest;
🛨 📴 CommonTestIn
🛨 📂 CommonTestOut
                                          30 import common.Common;
🗏 📂 JarTest
                                          4 import mpi.MpiTest;
   ± ■ JRE System Library [JavaSE-1.8]
   🗏 🥭 src
                                          6 public class JarTest {
    🚊 🌐 jartest
       🖈 🚺 JarTest, java
                                        80
9
                                                 public static void main(String[] args) {
   + Referenced Libraries
   ⊟ 🧀 lib
                                                     // TODO Auto-generated method stub
                                        10
      🕌 common-test-out.jar
                                                     System.out.println("Who are you?");
       🕌 mpi.jar
                                         11
12
13
                                                     System.out.println("Mpi调用common");
🛨 🮏 Mpi
                                                     System.out.println(new MpiTest().getCommonMsg());
⊕ 👸 MyTools
                                                     System.out.println("main调用common");
🛨 📂 Servers
                                          14
                                                     System.out.println(Common.common_test());
                                         15
                                                 }
                                          16 }
                                          17
```

• 接下来我们看下执行结果:



### 总结

jar里面的jar是无法被外部调用的,也无法被jar中的方法调用。也就是说,打进jar中的jar是没有用的。当我们需要提供jar给外部系统使用的时候,应该告知对方,我们的jar使用了哪些依赖包。