

JNI

Java Native Interface

- Java class → JNI → C/C++ library : java native function
- C/C++ library → JNI → Java class : C/C++ Program Java

JNI code C/C++ , C/C++ JNI API Java Native

JNI 가 , Java가 가

JNI Java Java 가

Java → C/C++

java program native 가 JVM JVM byte code 가 native JNI JVM

Java program

```
System.loadLibrary("foo");
```

C/C++ library load .JVM load library “ ”

```
JNI_OnLoad()
```

, java program native mapping

C/C++

C/C++ library 가 C/C++ JNI 가 return Java program 가

Java C/C++

가 Java C/C++ 가 Java program class C/C++ JNI가 가 () native (C/C++) JNIEnv env*가 parameter env 가 JNI

가 가 () .
 2가 C/C++ library
 (field) (method) 가 , C/C++ library 가 Java
 (set), (call) .

1. get field / method
2. set field / call method

get field / method JNI 가 field method

- id
- signature
- class name

JNI parameter .

NewGlobalRef()

) JNI reference native (C/C++ library)
 JNI reference global local, 2 .
 native reference local reference .
 C/C++ library static Java instance reference .
 instance JNI가 가 .
 (memory free JVM NewGlobalRef() /
 DeleteGlobalRef() .

Reference DeleteGlobalRef()
 JVM C/C++ library Java instance static
 NewGlobalRef() .

Local reference

local reference return GC(garbage collector)가 가 .
 2가 local reference .
 1. local reference가 object가 memory object , native
 가 local reference garbage collector 가 object 가
 2. local reference , local reference VM
 memory local reference

- <http://i5on9i.blogspot.kr/2013/01/jni.html>

- <http://www.econovation.co.kr/ecnvb/%EC%95%88%EB%93%9C%EB%A1%9C%EC%9D%B4%EB%93%9C-vlc-%ED%94%8C%EB%A0%88%EC%9D%B4%EC%96%B4-%EB%A7%8C%EB%93%A4%EA%B8%B0-%EC%95%88%EB%93%9C%EB%A1%9C%EC%9D%B4%EB%93%9C-jnjava-native-interface>
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