

# 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 Java 가 , Java가 가 . JNI Java Java 가

## Java → C/C++

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

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 . C/C++ 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)

) native . JNI reference global local, 2 .

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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