
Subject: Problem with Java-IDL bridge with custom Java object

Posted by [Matt\[4\]](#) on Mon, 25 Apr 2011 18:32:21 GMT

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Being neither an IDL nor a Java expert, I'm having trouble getting the the Java-IDL bridge working. For a simple test case of getting a Java object from IDL, I've tried creating a simple Java object:

```
public class MyCI {
    String stringMember;

    public MyCI() {
        stringMember = new String("String member");
    }

    public String toString() {
        return stringMember;
    }
}
```

This has been tested with another Java class and found to be working. I've created an IDL program to test this Java class via the Java-IDL bridge:

```
pro bridge_test
    print, "In bridge_test"
    java_str_obj = obj_new("IDLJavaObject$java.lang.String",
"java.lang.String", "a string")
    if (obj_class(java_str_obj) ne "IDLJAVAOBJECT
$JAVA.LANG.STRING") then begin
        print, "Error creating Java String object"
    endif else begin
        print, "Java String object created (I think)"
        the_string = java_str_obj -> toString()
        print, "the_string = ", the_string, ""
    endelse

    print, ""
    print, "Trying custom object ..."
    print, ""

    java_test_obj = obj_new("IDLJavaObject$MyCI", "MyCI")
    print, "After getting new object"
end
```

When run, the first part (creating a String) works as expected (it prints the progress messages, ending with "the_string = 'a string']"). However, when it gets to the second part, I'm getting a lengthy

exception after the "Trying custom object" message is printed:

```
% ERR -ReflObject::doesClassExist LinkageError:Bad version number
in .class file
% java.lang.UnsupportedClassVersionError: Bad version number in .class
file
% at java.lang.ClassLoader.defineClass1(Native Method)
% at java.lang.ClassLoader.defineClass(ClassLoader.java:620)
% at
  java.security.SecureClassLoader.defineClass(SecureClassLoader.java:
124)
% at java.net.URLClassLoader.defineClass(URLClassLoader.java:260)
% at java.net.URLClassLoader.access$100(URLClassLoader.java:56)
% at java.net.URLClassLoader$1.run(URLClassLoader.java:195)
% at java.security.AccessController.doPrivileged(Native Method)
% at java.net.URLClassLoader.findClass(URLClassLoader.java:188)
% at java.lang.ClassLoader.loadClass(ClassLoader.java:306)
% at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:268 )
% at java.lang.ClassLoader.loadClass(ClassLoader.java:251)
% at java.lang.ClassLoader.loadClassInternal(ClassLoader.java:319 )
% at java.lang.Class.forName0(Native Method)
% at java.lang.Class.forName(Class.java:164)
% at com.rsi.javab.ReflObject.doesClassExist(ReflObject.java:601)
% Class MyCl not found
% Execution halted at: BRIDGE_TEST      18 /home/melliott/Src/
JavalDL/nopackage/bridge_test.pro
%          $MAIN$
```

I've tried several things, including pointing the CLASSPATH environment variable straight at the directory which contains the MyCl.class file, many manipulations of the .idljavabrc file, and putting MyCl into a jar which is then put into the .idljavabrc file. Unfortunately, nothing has worked.

This is on an Ubuntu 10.10 Linux system with Java 1.6 and IDL 7.1.

Any help would be greatly appreciated!
