
Subject: IDL Java Bridge and bio-format
Posted by [biophys](#) on Mon, 30 Sep 2013 21:17:53 GMT
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Hi, Folks

I have been trying to use bio-format via java bridge with IDL 8.2.3 under 64bit windows 7. And I am getting "Exception thrown java.lang.NullPointerException" during objnew() call to create the loci.format.ImageReader class. I also tried to enable logging and only get the following

```
#####jb_log15000.txt#####  
IDL-Java Bridge      : May  3 2013 01:45:38  
Log Location        : C:/Users/bp/idl_source/lab/bioformat/java/LOG/  
Bridge Logging       : CONFIGFINE  
Config file         : C:\Users\bp\idl_source\lab\bioformat\java\idljavabrc  
Exit Strategy       : <null>  
Restart Bridge      : FALSE  
EXCEPTION cJBExceptJavaException : NewObjectA  
ERR <IDL_JBCreateJavaObject return=0000000000000000
```

The bio-format distribution of both 4.4.8 and 4.4.9 worked perfectly in ImageJ(Fiji). So I guess the problem is most likely the java bridge. But I don't know how to pursue further at this point. Any suggestions is highly appreciated!

Thank you,
BP

Subject: Re: IDL Java Bridge and bio-format
Posted by [biophys](#) on Tue, 01 Oct 2013 00:03:47 GMT
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A bit more details for you guys to reproduce the error.

1. visit Bio-format website
<http://www.openmicroscopy.org/site/products/bio-formats>
2. download the loci_tools.jar file and save to path\to\myjava\
http://cvs.openmicroscopy.org.uk/snapshots/bioformats/4.4.8/loci_tools.jar
or
<http://hudson.openmicroscopy.org.uk/job/BIOFORMATS-daily/las>
tSuccessfulBuild/artifact/artifacts/loci_tools.jar
3. download the ij_read_bio_formats.pro from Karsten Rodenacker's IDL Goodies
http://www.helmholtz-muenchen.de/ibb/homepage/karsten.rodenacker/IDL/_pro/ij_read_bio_formats.pro

4. modify ij_read_bio_formats.pro, insert SETENV right before objnew() like,

```
SETENV, 'IDLJAVAB_CONFIG=path\to\myjava\idljavabrc'  
m = obj_new('IDLJavaObject$LOCI_FORMATS_IMAGEREADER','loci.formats.ImageReader')
```

5. copy idljavabrc from IDL82\resource\bridges\import\java to path\to\myjava\.

6. modify path\to\myjava\idljavabrc

```
JVM Classpath = path\to\myjava\loci_tools.jar;C:\Program  
Files\Exelis\IDL82\resource\bridges\import\java\jbexamples.jar
```

also for logging

```
Log Location = path/to/myjava/LOG/  
Bridge Logging = CONFIGFINE
```

```
7. copy the following and save as demo.pro  
fn='path\to\data\test.tif'  
a = ij_read_bio_formats(fn, info, /verbose, /raw)  
help, info /str  
end
```

8. start/restart idl workbench and run demo.pro, check error msgs and maybe logging info look like path\to\myjava\LOG\jb_logXXXXX.txt

That's it. The test.tif can be loaded into ImageJ with the same loci_tools.jar with any problem. I also tried jvm server from the ImageJ distro, same issue. Thank you so much for reading this.

On Monday, September 30, 2013 2:17:53 PM UTC-7, bio...@gmail.com wrote:

> Hi, Folks

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