Subject: IDL 7.0 Java connector
Posted by renaud.dussurget on Fri, 04 Apr 2008 09:32:04 GMT

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Hi all

I finally end here as I cannot find an issue to my problem.
Let me explain...

I have been using a Java connector object since a while on my machine
to run an idl application, using the 6.3 version on a 32bits Linux
Debian. Another remark is that the whole project is developed using
the eclipse environment (which prepared us to the brand new IDL
workbench!).
We had some problems to configure it but finally we got it.

As we received the latest version of IDL (i.e. 7.0) we wanted to give
it a try with a java connector. I've been setting up the environment
correctly (as I did with idl 6.3) - i.e. setting IDL_PATH, PATH,
LD_LIBRARY_PATH and CLASSPATH environment variables, and also have
defined the path to the corresponding javaidlb.jar files (depending on
the versions). I have even tried it with the environement defining
scripts (idl_setup.sh and bridge_setup.sh) which are basically doing
the same.

BUT nothing worked (it would have been definitely too easy!).

So I came back to the basics and tried to set up the famous "hello
world!" code, which is given as an example in IDL connectivity bridge
help (in IDL/examples/docs/bridges i think).

Using eclipse I have created a new project and packaged the
hello_example.java. I have defined the corresponding javaidlb.jar in
the build path, and defined the environement variables in the "Run as
Java Project" interface.

and it works perfectly for idl 6.3.
but when I do EXACTLY the same for IDL 7.0 it just does not work at
all (it fails while doing the instanciation of the new
java_IDL_connect), and gives a weird error message, i.e. "Attempt to
call undefined procedure/function: 'GMEM_UNMAP'".

To try debugging it, I have used the -DIDL_LOAD_DEBUG Java VM argument
and set the IDL_BRIDGE_DEBUG argument to 1.

And it does not really give much more interesting informations....
Here is the whole error message:
"Java location : /usr/lib/jvm/java-1.5.0-sun-1.5.0.10/jre/lib/i386

(set relative to java.home property)
Successfully loaded libawt.so
Successfully loaded libjawt.so
Successfully loaded libjavaidlb.so
[DEFAULT_PROCESS_NAME] Error: eBadXPPATH: Bad value for XPPATH (/usr/
local/itt/idl70/resource/xprinter)
[DEFAULT_PROCESS_NAME] % Error opening printer.
[DEFAULT_PROCESS_NAME] % Attempt to call undefined procedure/function:
'GMEM_MAP'.
[DEFAULT_PROCESS_NAME] % Execution halted at: $MAIN$
[DEFAULT_PROCESS_NAME] % Attempt to call undefined procedure/function:
'GMEM_UNMAP'.
[DEFAULT_PROCESS_NAME] % Execution halted at: $MAIN$
[DEFAULT_PROCESS_NAME] Attempt to call undefined procedure/function:
'GMEM_UNMAP'.
Exception in thread "main" com.idl.javaidl.JIDLException[iErr=-999
sMsg=Attempt to call undefined procedure/function: 'GMEM_UNMAP'.]
 at com.idl.javaidl.JIDLPAL.nativeThrowJIDLException(Native Method)
 at com.idl.javaidl.JIDLPAL.throwSpecificException(JIDLPAL.java: 1069)
 at com.idl.javaidl.JIDLPAL.throwJIDLException(JIDLPAL.java:1098)
 at com.idl.javaidl.JIDLPAL.createObject(JIDLPAL.java:378)
 at com.idl.javaidl.JIDLPAL.createObject(JIDLPAL.java:314)
 at com.idl.javaidl.JIDLObject.createObject(JIDLObject.java:193)
 at com.idl.javaidl.JIDLObject.createObject(JIDLObject.java:103)
 at src.hello_example.<init>(hello_example.java:46)
 at src.hello_example.main(hello_example.java:66)"

another really disturbing thing I've found out pressing the wrong
button in eclipse is that when I only set up the classpath to point
towards idl7.0 javaidlb.jar, add this jar in the build path, and leave
the other environement variables to point towards IDL6.3... it
actually WORKS (???!!!!!!).
The thing is that I don't know if I am really using idl7.0 instead of
idl 6.3 (I guess that if the path is set up for IDL 6.3, it will run
the idl 6.3 version of the idl_opserver.exe...).

I did not find much informations about these errors. There are a
couple of threads dealing with the GMEM_UNMAP error, but it is linked
with IDL workbench and old IDL 6.3 DLMs definitions....

So if anybody of you has a clue about my problem, please let me know!!
Thanks a lot
Renaud