
Subject: Re: Talking to Matlab

Posted by [p.sommer](#) on Thu, 21 Oct 2004 15:32:09 GMT

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p.sommer@comcast.net (Paul) wrote in message

news:<c2d97616.0410060611.21b8eb2f@posting.google.com>...

> rcohen@raytheon.com (Rob) wrote in message

news:<ac2cbce6.0409300812.3b62cd9f@posting.google.com>...

>> I'm trying to get and set variables in Matlab from IDL. Using an older

>> newsgroup posting of how to do this, I'm able to put an array created

>> in IDL into Matlab and see it in Matlab's workspace, but I'm getting a

>> "bad variable type" response from Matlab when I try to get the array

>> back into IDL. Anyone see what my problem is in the code below? Or, if

>> there's a better way to do

>> this that would be valuable information as well. This is with IDL 6

>> and

>> Matlab 6.5 R13. Many thanks.

>>

>> IDL> oMatlab6=OBJ_NEW('IDLcomIDDispatch\$PROGID\$Matlab_Application_ 6')

>> IDL> data=DINDGEN(100)

>> IDL> PLOT, data

>> IDL> oMatlab6->PutFullMatrix,'fromidl','base',data,data

>> IDL> oMatlab6->Execute,'plot(fromidl);'

>> IDL> fromMat = oMatlab6->GetFullMatrix('fromidl','base',zreal,zimag)

>> % IDLCOMIDISPATCH\$PROGID\$MATLAB_APPLICATION_6::GETFULLMATRIX: Unable
>> to

>> call method GETFULLMATRIX.

>> Bad variable type.

>> % Execution halted at: \$MAIN\$

>

> Rob,

>

> We *should* be able to figure something out for you. I'm fairly

> certain the GetFullMatrix method returns a SAFEARRAY which is not

> supported by the IDL 5.5 COM bridge - SAFEARRAY majority is the

> opposite of IDL's storage.

>

> I'd suggest we try using the MATLAB Engine which is a lower level C

> API. Please contact me directly to discuss in more detail and then we

> can share our findings with the group once we have tried a few things.

>

> Thanks,

> -Paul

Update: Anyone interested should contact RSI directly. A solution does exist, but is not ready for general useage (yet). Also, would like to gauge interest to justify whether or not a more complete solution would be useful.
