
Subject: Re: Talking to Matlab

Posted by [p.sommer](#) on Wed, 06 Oct 2004 14:11:28 GMT

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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
