Posted by p.sommer on Thu, 21 Oct 2004 15:32:09 GMT View Forum Message <> Reply to Message 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('IDLcomIDispatch\$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.

Subject: Re: Talking to Matlab