On Jul 18, 1:54 pm, Karlo Janos wrote:
> rtowler wrote:
>> What are the types of the data in each of the cell arrays?
>
> As far as I know the function results in two "double"-arrays. At least
> both arrays should be of the same type.
>
>> If they are different then there is no way ...
>
> And if they are of the same type? What chance do I have?
>
> If there is no direct possibility to get the result, my last chance
> might be using a wrapper function written in C, that puts the results in
> one single array and can be invoked from IDL. Unfortunately I am not
> experienced in C, so the direct way would be the better one for me.

I'm guessing here, but your method probably returns a 2 element
variant array where each element is a variant containing doubles (in
other words a variant of variants). IDL doesn't handle variants
well. It can handle a variant that contains a single type, but it
cannot handle variants containing mixed types or as in your case
variants containing variants.

I think that you'll need to look at writing a dlm that acts as a
wrapper. If you want to win an award for the most obtuse route you
could use MATLAB's COM server functionality to pass this data to IDL:

ml=obj_new('IDLcomIDispatch$PROGID$matlab.application')
<insert MATLAB commands to invoke your COM client>
null=ml->execute('result=XFLib.The_Function(some, para,meters);')
resultarray1=ml->execute('result{1}')
resultarray2=ml->execute('result{2}')

Of course the data returned to IDL is of type string which you would
have to parse. I'm not saying it's a good idea :) If you decide to
write the DLM, you'll want Ronn Kling's book "Calling C and C++ from
IDL". I've found it indespensible. http://www.kilvarock.com/books/callingCfromIDL.htm

-Rick

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