Subject: Re: Remote a CCD by a Matrox Frabe grabber
Posted by Rick Towler on Fri, 18 Feb 2005 23:16:20 GMT
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Fabrice,

I can't help out much more than to say that you'll need that .dll and some quality time with the IDL documentaion on CALL_EXTERNAL. At the bottom of the mil.h file you'll see the function prototypes which will be very helpful too. Looking at your code I don't think you read the documentation for CALL_EXTERNAL. Also read the documentation on CALL_EXTERNAL in the "External Development Guide".

One option as Marc has pointed out is writing your own .dlm but if you don't have experience with C, that could be a quite a project to tackle. Sometimes this is the only option though. Ronn's book is a requirement if you decide to go this route.

Good luck!

-Rick

Fabrice Monti wrote:
> thanks to help me...
> this is a part of my matlab code:
>
> .....
> mydcf= '6703c60.dcf'
>
> loadlibrary('mil', 'mil.h');
> M_default= '10000000';
> M_default= 'hex2dec(M_default);
>
> v= int32(1);
> p_app= libpointer('int32ptr',v);
> calllib('mil', 'MAppAlloc', M_default, p_app);
>
> psys= libpointer('int32ptr',v);
> calllib('mil', 'MsysAlloc', 'M_system_meteor_II',M_default,
> M_default,psys);
>
> .....
>
> In this code i used a call to 'Mil.h'. I found this file on the net,
> this file is write only for Matlab.. but I can't used it with IDL...
> I have a library called 'Mil.dll' and i tried to 'translate' this part
> to IDL:
>

> ...
> mydcf= '6703c60.dcf'
> path= 'c:\test\mil.dll'
> res =call_external('mil', path)
>
> m_default='10000000'x
>
> v= float(1)
> p_app= ptr_new(v)
> return, call_external('mil', 'MAppAlloc', M_default, p_app)
>
> psys= ptr_new(v)
> return, call_external('mil', 'MsysAlloc',
> 'M_system_meteor_II',M_default, M_default,psys)
> ...
>
> but it doesn't work...
>
> the first error it's in the first call_external... The dll isn't
> open...
>
> if you have a idea....
> thank
> Rick Towler <rick.towler@nomail.noaa.gov> wrote in message
news:<cv319h$v9a$1@news.nems.noaa.gov>...
>
>> Fabrice Monti wrote:
>>
>>
>>> I use IDL for a lot a applications, but now I have a Big problem.
>>> I would like to capture an image from a CCD. I use a frame grabber
>>> (matrox meteor2).
>>>
>>> For the moment, i use Matlab with a external call to the "Mil". It's a
>>> library which remote the frame grabber. Whit matlab, i can see, save
>>> and modify my image.
>>> But i wrote a IDL to calculate a lot of think on this image.
>>> I must save the image in a file with Matlab and read it with IDL...
>>> Grrrr...
>>>
>>> Do you think is it possible to replace to call external of Matlab by
>>> the same function in IDL... i tried to use "call_external" and
>>> "socket" function whitout succes....
>>> is it possible to call a external library like "Mil" whit IDL, and
>>> how?
>>
>> It probably is possible with CALL_EXTERNAL. I doubt SOCKET would work
>> unless your frame grabber is attached to the network and it serves up

>> data via TCP/IP. You'd have to check your frame grabber docs.
>>
>> Why don't you post what you have tried with CALL_EXTERNAL. You should
>> be able to glean relevant information from your MATLAB
>> loadlibray/calllib functions to get you started in IDL.
>>
>> -Rick
