
Subject: how to pass array from dll into IDL?

Posted by [maxschautzer](#) on Thu, 05 Jul 2001 14:53:22 GMT

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Hi ,

I need to pass a bytearray from the dll to IDL (5.2).

I am writing a wrapper for a framegrabber which uses the dll functions to acquire the single frames(monochrome).

Then I try to pass the pointer address to idl, then this address seems not to work.

Here my example:

in dll:

```
IDL_LONG TestFunction(int argc, void* argv[])
{
    IDL_LONG *answer;
    BYTE b=255; //BYTE is UCHAR
    BYTE *pb;
    answer = (IDL_LONG *)argv[0];
    pb=&b;
    *answer = (IDL_LONG)pb;
    return(0L); //Return zero if all okay
}
```

in IDL:

```
a=10L
err=Call_External('acquire.dll','TestFunction',a)
print,a
IDL>10415668
```

This address seems not to be the address for b in dll. I tested this with:

```
var = EXTPROC_DEREF(addr,BYTE=1)
```

```
print,var
```

```
IDL>94 not 255
```

-> EXTPROC_DEREF comes from <http://www.rlkling.com/>

So her are my questions: How can I access these different address spaces?

How can I test this address in IDL?

Is there any possibility to transfer whole arrays(frames)?

And if, how fast can I get these arrays(25ms)?

Thanks

Max

Subject: Re: how to pass array from dll into IDL?
Posted by [nmw](#) on Tue, 10 Jul 2001 09:27:41 GMT
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In article <3B465516.C851CAB4@home.com>, Randall Frank <rjfrank1@home.com> writes:

> Nigel,
> Make sure you supply a free_cb function in your example.
>
> The line:
>
> array = IDL_ImportArray(1, dims, IDL_TYP_BYTE, data, NULL, NULL);
>
> should read something like:
>
> array = IDL_ImportArray(1, dims, IDL_TYP_BYTE, data,
> (IDL_ARRAY_FREE_CB)free, NULL);
>
> to avoid a memory leak in your example.
>
> FWIW.
>

Very good point!

--

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Subject: Re: how to pass array from dll into IDL?
Posted by [maxschautzer](#) on Tue, 10 Jul 2001 14:31:27 GMT
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Thanks for your advice!

IDL_ImportArray() is hard to find in IDL Online Help ->IDL External Development Guide.

Max Schautzer

Subject: Re: how to pass array from dll into IDL?
Posted by [david\[2\]](#) on Tue, 10 Jul 2001 14:45:47 GMT
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maxschautzer@my-deja.com writes:

> IDL_ImportArray() is hard to find in IDL Online Help ->IDL External Development
> Guide.

Keeps the rift-raft out. :-)

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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