
Subject: Re: IDL 6.3 read_binary ??

Posted by [Spon](#) on Wed, 05 Mar 2008 10:29:15 GMT

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On Mar 5, 10:22 am, kernin...@gmx.de wrote:

> Hello,
>
> I have a problem with the read_binary function in IDL version 6.3.
> When I call the following line it gives me a syntax error during
> compilation.
>
> array=read_binary(fname,
> data_dims=[mx,my,mz],data_type=4,endian='little')
>
> When I do the same in IDL version 5.6 there it works.
> Does anybody know a solution?
>
> Best regards,
>
> kerninger

Try closing your string:
...endian='little')

Subject: Re: IDL 6.3 read_binary ??

Posted by [kerninger](#) on Wed, 05 Mar 2008 13:24:08 GMT

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On Mar 5, 11:29 am, Spon <christoph.b...@gmail.com> wrote:

>
> Try closing your string:
> ...endian='little')

The string is closed in the code. It was a typo only here in this posting. Sorry for that.
But thank you for this remark;)

Subject: Re: IDL 6.3 read_binary ??

Posted by [Spon](#) on Wed, 05 Mar 2008 13:50:33 GMT

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On Mar 5, 1:24 pm, kernin...@gmx.de wrote:

> On Mar 5, 11:29 am, Spon <christoph.b...@gmail.com> wrote:
>

>
>
>> Try closing your string:
>> ...endian='little')
>
> The string is closed in the code. It was a typo only here in this
> posting. Sorry for that.
> But thank you for this remark;)

Hi,

sorry, I guess my comment came across as a lot less friendly than I'd intended. Hadn't had my coffee yet... sorry :-)

Anyway, your code, as it stands, works fine for me (v7.0) so long as:

- 1) fname is a string variable that points to a file that actually exists (and I have read access to, I guess),
- 2) mx & my & mz are defined scalars,
- 3) mx * my * mz * bytes-per-pixel (as defined by data_type) isn't > the file length,
and
- 4) I have a version of IDL that has swap_endian_inplace somewhere in its library (I think you'd have to have a fairly old version for this not to be the case, certainly I wouldn't expect any problems with v6.3 unless your !PATH is completely messed up for some reason.)

What error message are you getting? As you've changed versions I would suspect that your FNAME variable may be defined as a relative path to your old IDL directory or something. What happens if you define fname using dialog_pickfile first? I'm stabbing in the dark here without knowing what the error thrown is, though.

Regards,
Chris

Subject: Re: IDL 6.3 read_binary ??
Posted by [kerninger](#) on Wed, 05 Mar 2008 14:13:53 GMT
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On Mar 5, 2:50 pm, Spon <christoph.b...@gmail.com> wrote:

> On Mar 5, 1:24 pm, kernin...@gmx.de wrote:
>
>> On Mar 5, 11:29 am, Spon <christoph.b...@gmail.com> wrote:
>
>>> Try closing your string:
>>> ...endian='little')
>

```

>> The string is closed in the code. It was a typo only here in this
>> posting. Sorry for that.
>> But thank you for this remark;)
>
> Hi,
>
> sorry, I guess my comment came across as a lot less friendly than I'd
> intended. Hadn't had my coffee yet... sorry :-)
>
> Anyway, your code, as it stands, works fine for me (v7.0) so long as:
> 1) fname is a string variable that points to a file that actually
> exists (and I have read access to, I guess),
> 2) mx & my & mz are defined scalars,
> 3) mx * my * mz * bytes-per-pixel (as defined by data_type) isn't >
> the file length,
> and
> 4) I have a version of IDL that has swap_endian_inplace somewhere in
> its library (I think you'd have to have a fairly old version for this
> not to be the case, certainly I wouldn't expect any problems with v6.3
> unless your !PATH is completely messed up for some reason.)
>
> What error message are you getting? As you've changed versions I would
> suspect that your FNAME variable may be defined as a relative path to
> your old IDL directory or something. What happens if you define fname
> using dialog_pickfile first? I'm stabbing in the dark here without
> knowing what the error thrown is, though.
>
> Regards,
> Chris

```

Hi Chris,

it didn't seem unfriendly to me.
 Here is the error message:

```

-----
array=read_binary(fname,
data_dims=[mx,my,mz],data_type=4,endian='little')
                ^
% Syntax error.
  At: /home/.../clump_pp.pro, Line 276
% 1 Compilation error(s) in module GET_DATA.
-----

```

get_data looks like this in the same file:

```
-----  
pro get_data, fname, array  
  common shared_variables  
array=fltarr(mx,my,mz)  
array=read_binary(fname,  
data_dims=[mx,my,mz],data_type=4,endian='little')
```

end

```
-----
```

mx,my,mz are shared variables in the common block.

Regards,

kerninger

Subject: Re: IDL 6.3 read_binary ??

Posted by [Spon](#) on Wed, 05 Mar 2008 14:22:52 GMT

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On Mar 5, 2:13 pm, kernin...@gmx.de wrote:

> Hi Chris,
>
> it didn't seem unfriendly to me.
> Here is the error message:
> -----
>
> array=read_binary(fname,
> data_dims=[mx,my,mz],data_type=4,endian='little')
> ^
> % Syntax error.
> At: /home/.../clump_pp.pro, Line 276
> % 1 Compilation error(s) in module GET_DATA.
> -----
>
> get_data looks like this in the same file:
>
> -----
> pro get_data, fname, array
> common shared_variables
> array=fltarr(mx,my,mz)
> array=read_binary(fname,
> data_dims=[mx,my,mz],data_type=4,endian='little')
>
> end
> -----

>
> mx,my,mz are shared variables in the common block.
> Regards,
>
> kerninger

Ok, back to the really simple questions!

Do you really have a line break in the middle of a line here, or is it just the way google groups is splitting things up?

Try:

```
array=read_binary(fname, $  
data_dims=[mx,my,mz],data_type=4,Endian='little')
```

Subject: Re: IDL 6.3 read_binary ??

Posted by [kerninger](#) on Wed, 05 Mar 2008 14:37:18 GMT

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>
> Do you really have a line break in the middle of a line here, or is it
> just the way google groups is splitting things up?

This is the way google groups shows the code. There is no linebreak. Now, I think this problem doesn't come from the different IDL versions but from the systems I am using the code. The newer version 6.3 is running on a system, where (I think) it isn't allowed to read in large data sets, but I'm not sure. I will know this in a few days. Thank you for help!

Regards,

kerninger

Subject: Re: IDL 6.3 read_binary ??

Posted by [pgrigis](#) on Wed, 05 Mar 2008 14:53:23 GMT

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kernin...@gmx.de wrote:

>>
>> Do you really have a line break in the middle of a line here, or is it
>> just the way google groups is splitting things up?
>

- > This is the way google groups shows the code. There is no linebreak.
- > Now, I think this problem doesn't come from the different IDL versions
- > but from
- > the systems I am using the code. The newer version 6.3 is running on a
- > system, where
- > (I think) it isn't allowed to read in large data sets, but I'm not
- > sure.

That should not have any effect on the "compilation" of routines, but generate some kind of runtime error.

(You may try compiling only the offending line on your system instead of the whole program).

Ciao,
Paolo

I will know this in a few days.

- > Thank you for help!
- >
- > Regards,
- >
- > kerninger

Subject: Re: IDL 6.3 read_binary ??

Posted by [Spon](#) on Wed, 05 Mar 2008 15:05:36 GMT

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On Mar 5, 2:37 pm, kernin...@gmx.de wrote:

- > Now, I think this problem doesn't come from the different IDL versions
- > but from
- > the systems I am using the code. The newer version 6.3 is running on a
- > system, where
- > (I think) it isn't allowed to read in large data sets, but I'm not
- > sure. I will know this in a few days.

I still don't think you should be getting compilation errors though.

The error may be in the procedure immediately above your get_data procedure, like a missing endif/endifor or something. What line is 276 in your file? If it's the first line of get_data then I'm betting the problem is actually in the previous procedure. I can compile your code snippet without problems on my machine and can't see any reason why yours shouldn't do the same.

Anyway, good luck!
Chris

Subject: Re: IDL 6.3 read_binary ??

Posted by [Carsten Lechte](#) on Wed, 05 Mar 2008 15:47:46 GMT

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Spon wrote:

- > The error may be in the procedure immediately above your get_data
- > procedure, like a missing endif/endfor or something.

I once had that problem: an extra dot (.) at the end of a variable name caused a totally incomprehensible syntax error in the same procedure, many lines later. It did take quite some detective work to figure that one out.

chl

Subject: Re: IDL 6.3 read_binary ??

Posted by [kerninger](#) on Wed, 05 Mar 2008 17:00:04 GMT

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I checke all of your ideas but still the same problem.
I only compiled this procedure alone and I get the same error message.
thanks for your contribution so far.

kerninger

Subject: Re: IDL 6.3 read_binary ??

Posted by [Jean H.](#) on Wed, 05 Mar 2008 17:30:23 GMT

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kerninger@gmx.de wrote:

- > I checke all of your ideas but still the same problem.
- > I only compiled this procedure alone and I get the same error message.
- > thanks for your contribution so far.
- >
- > kerninger
- >

so, there is one thing we haven't check: the content of "fname".... It should fire a runtime error, not a syntax, but let's see...

especially, are the path separator the good ones for your machine? you said you have tried the same code under IDL5.6... is it on the same operating system?

Jean

Subject: Re: IDL 6.3 read_binary ??

Posted by [Vince Hradil](#) on Wed, 05 Mar 2008 17:40:13 GMT

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On Mar 5, 11:00 am, kernin...@gmx.de wrote:

- > I checke all of your ideas but still the same problem.
- > I only compiled this procedure alone and I get the same error message.
- > thanks for your contribution so far.
- >
- > kerninger

I'm running 6.3 on solaris and it compiles fine for me. The only thing that I can think of for a compile error would be some weird character in the text, like an international character? Have you tried re-typing the line?

Subject: Re: IDL 6.3 read_binary ??

Posted by [Spon](#) on Wed, 05 Mar 2008 18:13:19 GMT

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Jean H wrote:

- > kerninger@gmx.de wrote:
- >> I checke all of your ideas but still the same problem.
- >> I only compiled this procedure alone and I get the same error message.
- >> thanks for your contribution so far.
- >>
- >> kerninger
- >>
- >
- > so, there is one thing we haven't check: the content of "fname".... It
- > should fire a runtime error, not a syntax, but let's see...
- >
- > especially, are the path separator the good ones for your machine? you
- > said you have tried the same code under IDL5.6... is it on the same
- > operating system?
- >
- > Jean

There's another tack we could take: it looks to me like IDL is having trouble finding the READ_BINARY function, though heaven knows why.

IF this is the case then I suspect that by adding in the line:

```
forward_function read_binary
```

before your "array=..." line will at best make the problem go away and

at worst get rid of the compilation error and replace it with a "% Attempt to call undefined procedure/function:" message. Then all you'll have to do is find out `_why_` IDL isn't finding the function ;-)

Are you defining a variable called `read_binary` somewhere?

Do you have a string that ends in:
`.../rsi/idl_6.3/lib`

somewhere in the output of:
`print,transpose(strsplit(!path,':',/extract)) ; ?`

- I'm assuming a *nix OS due to the forward slashes you reported here:
% Syntax error.
At: /home/.../clump_pp.pro, Line 276
% 1 Compilation error(s) in module GET_DATA.

This is getting interesting...

Subject: Re: IDL 6.3 `read_binary` ??
Posted by [kerninger](#) on Thu, 06 Mar 2008 18:33:48 GMT
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I just want to say that the problem is really due to the system I try to use this code. An other system of the same Computing Center is able to compile and run the code.

So, thank you very much for your contribution.

Now we can close this discussion ;)

kerninger
