
Subject: Re: New Colorbar Missing?

Posted by [penteado](#) on Sat, 25 Sep 2010 14:21:59 GMT

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On Sep 25, 11:04 am, David Fanning <n...@dfanning.com> wrote:

> I have a COLORBAR *procedure* in the Coyote Library, and
> that is on the path ahead of the <DEFAULT> IDL libraries,
> but IDL has always been able to tell the difference between
> a procedure and a function.

>

> Clearly that procedure got compiled:

>

> IDL> Help, /source

> Compiled Procedures:

> \$MAIN\$

> COLORBAR C:\IDL\coyote\colorbar.pro

>

> Compiled Functions:

> FSC_COLOR C:\IDL\coyote\fsc_color.pro

> FSC_COLOR_COLOR24 C:\IDL\coyote\fsc_color.pro

> FSC_COLOR_COUNT_ROWS C:\IDL\coyote\fsc_color.pro

>

> Why is IDL getting confused here? Am I going to have

> to rename most of the routines in my Coyote Library?

I get the same here, if I move the Coyote path ahead of IDL_DEFAULT.

When it finds the first colorbar.pro, it stops looking for others. It

is the same reason that caused the legend procedure in idlastro to be
renamed to al_legend.

Subject: Re: New Colorbar Missing?

Posted by [penteado](#) on Sat, 25 Sep 2010 14:25:22 GMT

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On Sep 25, 11:21 am, Paulo Penteado <pp.pente...@gmail.com> wrote:

> I get the same here, if I move the Coyote path ahead of IDL_DEFAULT.

> When it finds the first colorbar.pro, it stops looking for others. It

> is the same reason that caused the legend procedure in idlastro to be

> renamed to al_legend.

http://groups.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/ea26dcc987d45f30/049a5390faa397f5

Subject: Re: New Colorbar Missing?

Posted by [David Fanning](#) on Sat, 25 Sep 2010 15:29:14 GMT

Paulo Penteado writes:

> I get the same here, if I move the Coyote path ahead of IDL_DEFAULT.
> When it finds the first colorbar.pro, it stops looking for others. It
> is the same reason that caused the legend procedure in idlastro to be
> renamed to al_legend.

Humm. Yes. That really complicates things, doesn't it. :-(

I'm going to have to give this some thought.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: New Colorbar Missing?

Posted by [R.G.Stockwell](#) on Sat, 25 Sep 2010 18:14:07 GMT

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"David Fanning" <news@dfanning.com> wrote in message
news:MPG.2707af52e7d3fd069897f3@news.giganews.com...

> Folks,

>

> I start a new IDL session and type this:

>

> IDL> graphic = colorbar(rgb_table=5)

> % Compiled module: COLORBAR.

> % Attempt to call undefined procedure/function: 'COLORBAR'.

> % Execution halted at: \$MAIN\$

> IDL> Print, !version

> { x86_64 Win32 Windows Microsoft Windows 8.0 Jun 17 2010 64 64}

>

> Any ideas!? This is a complete mystery to me. :-(

>

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>
> IDL> Help, /source
> Compiled Procedures:
> \$MAIN\$
> COLORBAR C:\IDL\coyote\colorbar.pro
>
> Compiled Functions:
> FSC_COLOR C:\IDL\coyote\fsc_color.pro
> FSC_COLOR_COLOR24 C:\IDL\coyote\fsc_color.pro
> FSC_COLOR_COUNT_ROWS C:\IDL\coyote\fsc_color.pro
>
> Why is IDL getting confused here? Am I going to have
> to rename most of the routines in my Coyote Library?
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> Cheers,
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> David
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> David Fanning, Ph.D.
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I don't know if this is relevant, but I have noticed that any text after the
"end" statement
in a pro file, causes this error message exactly.

I run into that all the time, debugging some code, or just doing some data
exploration, where
I have a main level script that reads data, analyzes data makes some plots.

I often want to just stop the code at a point, and examine a data product.
It used to be
very convenient to just drop an end in the middle of the code, to end the
program and return
to the main level. alas, no more.

cheers,
bob

PS even if everything is commented out after the 'end', it still causes that

Subject: Re: New Colorbar Missing?

Posted by [Jeremy Bailin](#) on Sun, 26 Sep 2010 16:03:58 GMT

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On Sep 25, 2:14 pm, "R.G. Stockwell" <noem...@please.com> wrote:

```
> "David Fanning" <n...@dfanning.com> wrote in message
>
> news:MPG.2707af52e7d3fd069897f3@news.giganews.com...
>
>
>
>
>
>
>> Folks,
>
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>
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>> % Compiled module: COLORBAR.
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>> IDL> Print, !version
>> { x86_64 Win32 Windows Microsoft Windows 8.0 Jun 17 2010  64    64}
>
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>> FSC_COLOR          C:\IDL\coyote\fsc_color.pro
>> FSC_COLOR_COLOR24   C:\IDL\coyote\fsc_color.pro
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>> Cheers,
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> exploration, where
> I have a main level script that reads data, analyzes data makes some plots.
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> It used to be
> very convenient to just drop an end in the middle of the code, to end the
> program and return
> to the main level. alas, no more.
>
> cheers,
> bob
>
> PS even if everything is commented out after the 'end', it still causes that
> error

You could use stop and then do a return as soon as it quits to get
back to the main level.

-Jeremy.

Subject: Re: New Colorbar Missing?

Posted by [David Fanning](#) on Mon, 27 Sep 2010 18:35:37 GMT

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David Fanning writes:

> I start a new IDL session and type this:
>
> IDL> graphic = colorbar(rgb_table=5)
> % Compiled module: COLORBAR.
> % Attempt to call undefined procedure/function: 'COLORBAR'.
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```
> IDL> Print, !version  
> { x86_64 Win32 Windows Microsoft Windows 8.0 Jun 17 2010  64    64}  
>  
> Any ideas!? This is a complete mystery to me. :-(
```

Thanks to Paulo and others for pointing out the naming conflicts IDL 8 introduced. Two Coyote Library routines, in particular, were causing problems for me: COLORBAR, a direct graphics color bar program and (I suspect) widely used since it was written in 1996; and COLORBAR__DEFINE, the object equivalent of COLORBAR and probably not used much.

I have renamed these two routines in the Coyote Library to FSC_COLORBAR and FSC_COLORBAR__DEFINE, respectively. I have retained the original COLORBAR routine in a new "obsolete" sub-directory of the Coyote directory for people who want to use it. (Perhaps you haven't updated to IDL 8 yet.)

I have also written an article that explains the name conflicts with the Coyote and NASA Astronomy libraries in detail and suggests several possible solutions to the problem. (None completely satisfactory, by the way.)

http://www.dfanning.com/ng_tips/idl8_name_conflicts.html

I have gone through my web page with a fine-toothed comb and changed all the references to COLORBAR to FSC_COLORBAR. I have done the same thing with the Coyote and Catalyst Libraries. In all some dozen or so programs were changed.

In light of this, it might be a good time to upgrade your own libraries. You can either do this via zip files:

<http://www.dfanning.com/programs/coyoteprograms.zip>
<http://www.dfanning.com/programs/catalyst.zip>

(Be sure to delete colorbar.pro and colorbar__define.pro from your old library folders if you update on top of an existing directory. I recommend you start with fresh, empty folders.)

Or from the new idl-coyote open source project:

<http://idl-coyote.googlecode.com>

No doubt we haven't heard the end of this, but maybe in a couple of years it will have sorted itself out and we

can all laugh about it. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: New Colorbar Missing?

Posted by [penteado](#) on Mon, 27 Sep 2010 23:11:34 GMT

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On Sep 27, 3:35 pm, David Fanning <n...@dfanning.com> wrote:

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> <http://idl-coyote.googlecode.com>

>

> No doubt we haven't heard the end of this, but maybe in
> a couple of years it will have sorted itself out and we
> can all laugh about it. :-)

Nice, thanks for doing the update.

Maybe these naming conflicts were causing your troubles with Catalyst
on IDL 8?

Subject: Re: New Colorbar Missing?

Posted by [David Fanning](#) on Tue, 28 Sep 2010 01:14:05 GMT

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Paulo Penteado writes:

> Maybe these naming conflicts were causing your troubles with Catalyst
> on IDL 8?

It's entirely possible. I haven't noticed any problems
so far today. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: New Colorbar Missing?

Posted by [vasily](#) on Mon, 04 Oct 2010 16:00:29 GMT

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On Sep 27, 7:35 pm, David Fanning <n...@dfanning.com> wrote:

> David Fanning writes:

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>

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> David Fanning, Ph.D.
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> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Dear David,

Thanks for the update, but it seems that you have removed HIST_ND from the current version of the library. Is there a reason for that?

Thanks,
Vasily
