
Subject: Broken CGFIXPS routine?

Posted by [Matteo](#) on Thu, 31 Aug 2017 23:21:38 GMT

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Hi,

I was trying to generate a plot in a way that was used to work, as in:

```
CGPS_OPEN, filename='testplot.ps'  
CGPLOT, FINDGEN(10)  
CGPS_CLOSE, /pdf
```

but now I obtained the error message: "CGPS_CLOSE -> Attempt to call undefined procedure: CGFIXPS". I obviously have CGFIXPS in the Coyote library, but the problem seems to be in the following lines (as it seems to have been noted here: <https://github.com/idl-coyote/coyote/issues/11>). Any idea on the best fix for this issue?

```
<<<<<<< HEAD  
  Get_Lun, in_lun  
  OpenR, in_lun, in_filename  
=====
```

```
>>>> >>> 8ba3a7b34691137b0d0b3d3f508b434ded51fa12  
  IF (FStat(in_lun)).size EQ 0 THEN BEGIN  
    Free_lun, in_lun  
    Free_lun, out_lun  
    File_Delete, out_filename  
    ;Print, 'Zero Length File Encountered...'  
    RETURN  
  ENDIF
```

```
<<<<<<< HEAD  
  ; Move along in the file until the end of the Prolog.  
  line = ""  
  count = 0  
  target = "void"  
  buffer = StrArr(100)
```

```
=====
```

```
>>>> >>> 8ba3a7b34691137b0d0b3d3f508b434ded51fa12
```

Subject: Re: Broken CGFIXPS routine?

Posted by [wlandsman](#) on Fri, 01 Sep 2017 14:19:02 GMT

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So I assume that cgfixps.pro is not found because it is not compiling

IDL> .run cgfixps

because of spurious characters introduced during a bad merge. This was fixed on the GitHub site (according to the link you give) but still seems to be broken on the main Coyote site

<http://www.idlcoyote.com/programs/cgfixps.pro>

So I would make sure you get your copy of cgfixps.pro from GitHub

<https://github.com/idl-coyote/coyote/blob/master/cgfixps.pro>

--Wayne

On Thursday, August 31, 2017 at 7:21:40 PM UTC-4, Matteo wrote:

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Subject: Re: Broken CGFIXPS routine?

Posted by [Matteo](#) on Sat, 02 Sep 2017 00:46:39 GMT

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Thank you Wayne for looking into this!

I think this fixes that particular step, although I recently installed a new IDL on my laptop and now I encounter the issue with cgImageMagick not being found. I went through the various posts on this (see e.g: http://www.idlcoyote.com/cg_tips/findimonmac.php) but it gets a bit involved...is there a clear sequence of steps to link IDL to the right place? I seem to understand the problem is with the "convert" executable. I tried to download the last version of ImageMagick and it got unpacked in the Applications/ directory but nothing changes. Note that I tried to use the older PS_START and PS_END commands, everything runs fine but the generated ps file is blank.

Running IDL 8.6.1 on Mac/OS (Yosemite).

I hope somebody can help...

On Friday, September 1, 2017 at 10:19:06 AM UTC-4, wlandsman wrote:

> So I assume that cgfixps.pro is not found because it is not compiling

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```

Subject: Re: Broken CGFIXPS routine?

Posted by [wlandsman](#) on Tue, 05 Sep 2017 00:24:59 GMT

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A couple of things are unclear in your post.

1. You say you installed ImageMagick. Does it work (outside of IDL)? Can you convert (from the MacOS terminal prompt) a postscript file to PDF

convert idl.ps idl.pdf

2. IDL simply spawns a call to ImageMagick to convert the postscript file so there shouldn't be any special steps needed to "link" IDL. But you also mention a problem with the created

postscript file, which would have nothing to do with ImageMagick. Are you able to run your program and successfully create a postscript plot? --Wayne

On Friday, September 1, 2017 at 8:46:42 PM UTC-4, Matteo wrote:

> I think this fixes that particular step, although I recently installed a new IDL on my laptop and now I encounter the issue with cgImageMagick not being found. I went through the various posts on this (see e.g: http://www.idlcoyote.com/cg_tips/findimonmac.php) but it gets a bit involved...is there a clear sequence of steps to link IDL to the right place? I seem to understand the problem is with the "convert" executable. I tried to download the last version of ImageMagick and it got unpacked in the Applications/ directory but nothing changes. Note that I tried to use the older PS_START and PS_END commands, everything runs fine but the generated ps file is blank.

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```

Subject: Re: Broken CGFIXPS routine?

Posted by [Matteo](#) on Tue, 05 Sep 2017 12:16:42 GMT

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On Tuesday, September 5, 2017 at 2:25:02 AM UTC+2, wlandsman wrote:

> A couple of things are unclear in your post.

>

> 1. You say you installed ImageMagick. Does it work (outside of IDL)? Can you convert
(from the MacOS terminal prompt) a postscript file to PDF

>

> convert idl.ps idl.pdf

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any special steps needed to "link" IDL. But you also mention a problem with the created
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program and successfully create a postscript plot? --Wayne

Sorry Wayne,

poor wording, my bad. Yes ImageMagick (ImageMagick-6.7.1-10) does seem to work when used from command line.

I'm trying to look more into here:

http://www.idlcoyote.com/graphics_tips/macspawnim.php

I can confirm that my ~/Applications/harris/idl86/bin/bin.darwin.x86_64/idl_url.dll file reports the line:

VERSION curl 7.49.1, ssl 1.0.2h, zlib 1.2.8

and that cgHasImageMagick() gives me 0.

The coyote page above suggests to update "the link (libz.a.dylib) to point to zlib version 1.2.8 instead of to version 1.2.3.", but I can't find that link (a search for libz.a.dylib returns nothing). Have you tried something like that before? As I have specified, I have the newest IDL version (8.6.1) so this page seems relevant.

Thanks!

Subject: Re: Broken CGFIXPS routine?

Posted by [wlandsman](#) on Tue, 05 Sep 2017 14:43:28 GMT

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On Tuesday, September 5, 2017 at 8:16:46 AM UTC-4, Matteo wrote:

>

> poor wording, my bad. Yes ImageMagick (ImageMagick-6.7.1-10) does seem to work when used from command line.

If ImageMagick is working then you can always create postscript files with your Coyote IDL routines, and convert them in a separate step from the command line.

The function cghasimagemagick.pro tries to determine if ImageMagick is present by seeing if the command

Spawn, 'convert -version', result, error_result

gives an error. Unfortunately, it appears that in some setups the above line returns an error even if ImageMagick is present. I might replace cghasimagemagick.pro with the following code:

```
function cghasimagemagick,version=version
version = "
return,1
```

end

>

> I'm trying to look more into here:

> http://www.idlcoyote.com/graphics_tips/macspawnim.php

I don't think this page is relevant. It is for the case where CGHasImageMagic() reports true (imageMagick found) but gives zlib errors. You say that the problem is that ImageMagick can't be found.

--Wayne
