
Subject: Re: IDL Astronomy Library: Some procedures doesn't work?

Posted by [David Fanning](#) on Wed, 19 Dec 2012 14:03:29 GMT

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Nothingness writes:

> I have IDL and IDL Astronomy Library installed on server of my
> institute. Some procedures can be executed, like hastrom, ad2xy,
> correl_optimize, etc. However some others can't, like convolve,
> psf_gaussian, etc. Even though their locations are in the IDL paths
> and some of them (convolve and correl_optimize) are in the same
> directory. And they have the same permissions.

>

> Do you have any idea how to fix this?

Yes, call the procedures as procedures:

```
IDL> Junk
```

And call the functions as functions:

```
IDL> var = Junker()
```

Functions in IDL always return a value. You have to provide a receptacle (variable) for the value of the function to be returned in.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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

Subject: Re: IDL Astronomy Library: Some procedures doesn't work?

Posted by [wlandsman](#) on Wed, 19 Dec 2012 18:05:19 GMT

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On Wednesday, December 19, 2012 8:50:47 AM UTC-5, BlueSky wrote:

```
> IDL> psf_gaussian  
> % Compiled module: PSF_GAUSSIAN.  
> % Attempt to call undefined procedure/function: 'PSF_GAUSSIAN'.  
> % Execution halted at: $MAIN$
```

For a long time I've felt that IDL gives a very confusing error message here. One sees the function compiled successfully, and then an immediate error message of "undefined procedure/function". I realize that one can have two distinct modules with the same name -- one a procedure and one a function. But it would be nice if the compilation message could say whether a procedure or function was compiled, e.g.

% Compiled function: PSF_GAUSSIAN.

and if the error message said whether it was a procedure or function call, e.g.

> % Attempt to call undefined procedure: 'PSF_GAUSSIAN'.

--Wayne

Subject: Re: IDL Astronomy Library: Some procedures doesn't work?

Posted by [Mark Piper](#) on Thu, 20 Dec 2012 20:10:30 GMT

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On Wednesday, December 19, 2012 11:05:19 AM UTC-7, wlandsman wrote:

>

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> and if the error message said whether it was a procedure or function call, e.g.

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>

>

>

> --Wayne

Hi Wayne,

Chris & I like this idea; his team is looking into it.

Subject: Re: IDL Astronomy Library: Some procedures doesn't work?

Posted by [Nothingness](#) on Tue, 08 Jan 2013 14:18:23 GMT

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On Wednesday, December 19, 2012 10:03:29 PM UTC+8, David Fanning wrote:

> Nothingness writes:

>

>

>

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> David
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> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Hi David,

Thanks for the tips. The function `psf_gaussian` works properly when I input variables in, e.g. `psf = psf_gaussian([12,23,19.2],npixel=50)`.

D
