
Subject: Re: IDL issues: poly_fit.pro.

Posted by [David Fanning](#) on Wed, 17 Apr 2013 14:43:01 GMT

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Sreelakshmi S writes:

> I am new to idl..I have been trying to fit the function poly_fit to my data but each time an error message comes:

> % Variable is undefined: POLY_FIT.

> % Execution halted at: \$MAIN\$

>

> Its a lib defined function...

> y am i still getting this error?

Don't know. Let's see the line of code where you are calling it.

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 issues: poly_fit.pro.

Posted by [Sreelakshmi S](#) on Wed, 17 Apr 2013 14:47:43 GMT

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On Wednesday, April 17, 2013 8:13:01 PM UTC+5:30, David Fanning wrote:

> Sreelakshmi S writes:

>

>

>

>> I am new to idl..I have been trying to fit the function poly_fit to my data but each time an error message comes:

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>> % Variable is undefined: POLY_FIT.

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> Cheers,
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> David
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>
fit=poly_fit(x,y,fit)
both x any y are arrays

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Subject: Re: IDL issues: poly_fit.pro.
Posted by [David Fanning](#) on Wed, 17 Apr 2013 14:57:45 GMT
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Sreelakshmi S writes:

> fit=poly_fit(x,y,fit)
> both x any y are arrays

OK, well, I think IDL has gotten confused for some reason. What happens if you try this command after compiling POLY_FIT?

IDL> .compile poly_fit

```
IDL> fit=poly_fit(x,y,fit)
```

Cheers,

David

--

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Subject: Re: IDL issues: poly_fit.pro.

Posted by [Sreelakshmi S](#) on Wed, 17 Apr 2013 17:42:37 GMT

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On Wednesday, April 17, 2013 8:27:45 PM UTC+5:30, David Fanning wrote:

> Sreelakshmi S writes:

>

>

>

>> fit=poly_fit(x,y,fit)

>

>> both x any y are arrays

>

>

>

> OK, well, I think IDL has gotten confused for some reason. What happens

>

> if you try this command after compiling POLY_FIT?

>

>

>

> IDL> .compile poly_fit

>

> IDL> fit=poly_fit(x,y,fit)

>

>

>

> Cheers,

>

>

>

> David

>

>
>
>
>
> Its showing error opening file. File:poly_fit
>
> --
>
> David Fanning, Ph.D.
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Subject: Re: IDL issues: poly_fit.pro.
Posted by [David Fanning](#) on Wed, 17 Apr 2013 17:52:21 GMT
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Sreelakshmi S writes:

>> Its showing error opening file. File:poly_fit

Well, then I would say we know what the problem is. Somehow the IDL library directory has gotten itself lost and is no longer on your IDL path. You are going to need to find it (it is the lib directory in your IDL distribution) and put it back on the IDL path (!PATH system variable) so it can be found. How you do that depends on your operating system and how you are running IDL, but here are some general instructions for installing any third-party IDL library. They will apply equally well to the library that comes with IDL:

http://www.idlcoyote.com/code_tips/installcoyote.php

Cheers,

David

--

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Subject: Re: IDL issues: poly_fit.pro.

Posted by [Sreelakshmi S](#) on Wed, 17 Apr 2013 18:22:05 GMT

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I have defined the path as you have said.

```
export IDL_PATH=$IDL_PATH:'+~/idlastrosoftware'
```

My operating system is Ubuntu

On Wednesday, April 17, 2013 11:22:21 PM UTC+5:30, David Fanning wrote:

> Sreelakshmi S writes:

>

>

>

>>> Its showing error opening file. File:poly_fit

>

>

>

> Well, then I would say we know what the problem is. Somehow the IDL

>

> library directory has gotten itself lost and is no longer on your

>

> IDL path. You are going to need to find it (it is the lib directory in

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> your IDL distribution) and put it back on the IDL path (!PATH system

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> Cheers,

>

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> David

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Subject: Re: IDL issues: poly_fit.pro.
Posted by [David Fanning](#) on Wed, 17 Apr 2013 18:33:50 GMT
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Sreelakshmi S writes:

> I have defined the path as you have said.
>
> export IDL_PATH=\$IDL_PATH:'+~/idlastrosoftware'
>
> My operating system is Ubuntu

Well, if that is where POLY_FIT program is, then you are good to go. The POLY_FIT I know about doesn't live in the Astronomy Library, but in the IDL library. So, in my case, this wouldn't help much. You may have better results. :-)

Cheers,

David

--
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Subject: Re: IDL issues: poly_fit.pro.
Posted by [Sreelakshmi S](#) on Tue, 23 Apr 2013 14:09:19 GMT
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On Thursday, April 18, 2013 12:03:50 AM UTC+5:30, David Fanning wrote:

> Sreelakshmi S writes:
>

>
>
>> I have defined the path as you have said.
>
>>
>
>> export IDL_PATH=\$IDL_PATH:'+~/idlastrosoftware'
>
>>
>
>> My operating system is Ubuntu
>
>
>
> Well, if that is where POLY_FIT program is, then you are good to go. The
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> POLY_FIT I know about doesn't live in the Astronomy Library, but in the
>
> IDL library. So, in my case, this wouldn't help much. You may have
>
> better results. :-)
>
>
>
> Cheers,
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>
> David
>
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>
>
> So how should I modify so that it reads from both libraries?
>
> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
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Subject: Re: IDL issues: poly_fit.pro.

Posted by [Norbert Hahn](#) on Tue, 23 Apr 2013 16:13:01 GMT

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Sreelakshmi S <sreelakshmi.s86@gmail.com> wrote:

```
> fit=poly_fit(x,y,fit)
> both x any y are arrays
```

... and how is the variable fit (3rd parameter) defined?

It will be overridden by the result of poly_fit. Is that what you want?

The documentation says:

```
; CALLING SEQUENCE:
; Result = POLY_FIT(X, Y, Degree)
;
; INPUTS:
; X: The independent variable vector.
;
; Y: The dependent variable vector, should be same length as x.
;
; Degree: The degree of the polynomial to fit.
;
; OUTPUTS:
; POLY_FIT returns a vector of coefficients with a length of NDegree+1.
;
```

Norbert
