
Subject: % POLY_FIT: Warning: Invert detected a small pivot element - help needed

Posted by [sid](#) on Sat, 12 Jun 2010 18:54:46 GMT

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Hi,

I am fitting my data with 3 degree polynomial using poly_fit, after running the program, im getting this warning message % POLY_FIT: Warning: Invert detected a small pivot element. Please suggest me if there is any way to get rid of this and why exactly im getting this kind of warning.

Note: I read from poly_fit help that by setting the /double keyword, we can get rid of this kind of warning. But that doesn't helped me.

regards

sid

Subject: Re: % POLY_FIT: Warning: Invert detected a small pivot element - help needed

Posted by [Giuseppe Papa](#) on Sun, 11 Jul 2010 10:43:43 GMT

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Hi, I solved this with my code:

```
poly_coefs = poly_fit(xvector, yvector, 3,/double,status=estatus)
  if estatus eq 2 then begin
    xvector=[0,xvector]
    yvector=annularSum[xvector]
    poly_coefs = poly_fit(xvector, yvector, 3,/double,status=estatus)
    print, 'estatusss',estatus
  endif
```

Also, you can add more cases with a case 1:

Best regards.

Luis Navarro D.

luis.navarro.dominguez@gmail.com

frmsrcurl: http://compgroups.net/comp.lang.idl-pvwave/-POLY_FIT-Warning-Invert-detected-a-small-pivot-element-help-needed

Subject: Re: % POLY_FIT: Warning: Invert detected a small pivot element - help needed

Posted by [Giuseppe Papa](#) on Sun, 11 Jul 2010 10:52:22 GMT

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Well, that error usually happens when the routine can't make the fit because the trend changes and you have few points so what you need to do is give it maybe one or two points more, so routine will know a better understanding to make the fitting.

Best regard,

frmsrcurl: [http://compgroups.net/comp.lang.idl-pvwave/-POLY_FIT-Warning
-Invert-detected-a-small-pivot-element-help-needed](http://compgroups.net/comp.lang.idl-pvwave/-POLY_FIT-Warning-Invert-detected-a-small-pivot-element-help-needed)

Subject: Re: % POLY_FIT: Warning: Invert detected a small pivot element - help needed

Posted by [Craig Markwardt](#) on Mon, 12 Jul 2010 23:41:24 GMT

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On Jul 11, 6:43 am, landsito <u...@compgroups.net/> wrote:

> Hi, I solved this with my code:

```
>
> poly_coefs = poly_fit(xvector, yvector, 3,/double,status=estatus)
> if estatus eq 2 then begin
>   xvector=[0,xvector]
>   yvector=annularSum[xvector]
>   poly_coefs = poly_fit(xvector, yvector, 3,/double,status=estatus)
>   print, 'estatuss',estatus
> endif
```

> Also, you can add more cases with a case 1:

It's not clear to me how adding fake data points will "solve" the problem...
