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Subject: Re: meanclip  
Posted by [David Fanning](#) on Thu, 06 Dec 2012 14:04:00 GMT  
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Charlie Paul D'auria writes:

> I was just wondering if anyone can guide me in using meanclip.pro? I'm am an IDL beginner  
and the online documentation is sparse.. (I don't get it)  
>  
> I have a double array of 2 columns and 1439 rows.  
>  
> I'd like to use this program to clip data that is a certain amount of sigma away from the last  
value and then plot it. I am also using the Poly fit routine if this is relevant.

I think you are going to have to give us more clues  
about what you are trying to do. Does your two column  
array represent point locations? What does "away"  
mean in the context you are using it? Which one  
of these points in your array is the "last value"?  
Why do you think PolyFit might be relevant?

Too many questions to even begin to formulate an answer! ;-)

Cheers,

David

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

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Subject: Re: meanclip  
Posted by [wlandsman](#) on Thu, 06 Dec 2012 16:15:39 GMT  
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meanclip.pro, is not a standard IDL procedure but in the IDL Astronomy library (  
<http://idlastro.gsfc.nasa.gov/ftp/pro/math/meanclip.pro> ).

As David said, you don't give enough information, but I am going to guess that  
the first column in your array contains your X values, and the second column contains the Y  
values you want to plot. If true, then I would copy these into X and Y vectors to make it easier to  
keep track of things.

```
IDL> x = arr[:,0]
IDL> y = arr[:,1]
IDL> help,arr,x,y
ARR      DOUBLE   = Array[1439, 2]
X        DOUBLE   = Array[1439]
Y        DOUBLE   = Array[1439]
```

MEANCLIP is meant to take the mean of an array after iteratively removing outliers, but it also has a keyword to find "good" subscripts -- by default those values within 3 sigma of the mean.

```
IDL> meanclip,y,arrmean,subs=subs
IDL> help,subs
SUBS     LONG     = Array[1435]
```

So meanclip has thrown out 4 outliers. Now one can plot only the good data

```
IDL> cgplot, x[subs], y[subs]
```

--Wayne

On Thursday, December 6, 2012 6:13:48 AM UTC-5, Charlie Paul D'auria wrote:

> Hi everyone.

>

>

>

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> Any help would be great appreciated!

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>

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> Charlie