
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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>

> 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)

>

>

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> 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.

>
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>
> Any help would be great appreciated!
>
>
>
> Charlie
