Subject: meanclip
Posted by Charlie Paul D'auria on Thu, 06 Dec 2012 11:13:48 GMT
View Forum Message <> Reply to Message

Hi everyone.

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.

Any help would be great appreciated!

Charlie

Subject: Re: meanclip
Posted by Charlie Paul D'auria on Sat, 08 Dec 2012 20:32:57 GMT
View Forum Message <> Reply to Message

On Thursday, 6 December 2012 11:13:48 UTC, Charlie Paul D'auria wrote:
> Hi everyone.
>
>
>
> 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.
>
>
>
> Any help would be great appreciated!
>
>
>
> Charlie

Thanks for the help so far, and sorry for the lack of details!!

Wayne, what you've written seems great, I will try this.

The array contains data relating to the flux versus time of an astronomical event. The data shows strange characteristics such as dips, which I am hoping to remove by a method other that just 'cutting' them out by eye. I was hoping to use a program that discards data that is outside an allowed limit from the previous data point.

I have used poly fit to fit a trend line to see if the data fits a certain gradient.

Anyway, i'll give what i've got a go.

Charlie

Subject: Re: meanclip
Posted by wlandsman on Sat, 08 Dec 2012 22:32:44 GMT
View Forum Message <> Reply to Message

One problem with using meanclip.pro for your example, is that it determines outliers by comparing with the mean of *all* the data. But your data presumably has real trends, (which you are trying to determine with poly_fit).

Better would be to use "robust" polynomial fitting, in which outliers are determined by their deviation from a polynomial fit. This what the program robust_poly_fit.pro does.

http://idlastro.gsfc.nasa.gov/ftp/pro/robust/robust_poly_fit .pro

--Wayne

On Saturday, December 8, 2012 3:32:57 PM UTC-5, Charlie Paul D'auria wrote:

>
> The array contains data relating to the flux versus time of an astronomical event. The data shows strange characteristics such as dips, which I am hoping to remove by a method other that just 'cutting' them out by eye. I was hoping to use a program that discards data that is outside an allowed limit from the previous data point.
>
>
>
> I have used poly fit to fit a trend line to see if the data fits a certain gradient.
>
>
>
> Anyway, i'll give what i've got a go.
>
>

>
> Charlie