
Subject: PSYM=10 problem

Posted by [Laurent Chardon](#) on Tue, 16 Nov 1999 08:00:00 GMT

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Is there a good reason why the first bin plotted by the plot/PSYM=10 combination is half the size of all the others? Can I get around this behaviour? I want all the bins to be of equal size.

Thanks for your help.

Laurent

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Subject: Re: PSYM=10 problem

Posted by [Craig Markwardt](#) on Tue, 16 Nov 1999 08:00:00 GMT

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Liam Gumley <Liam.Gumley@ssec.wisc.edu> writes:

>

> Laurent Chardon wrote:

>> Is there a good reason why the first bin plotted by the plot/PSYM=10
>> combination is half the size of all the others? Can I get around this
>> behaviour? I want all the bins to be of equal size.

>

> A few months ago in this newsgroup, David Fanning convinced me that
> PSYM=10 would never give an accurate representation of a histogram, and
> that the only way to do it right is to plot the histogram yourself. As
> you've noted, the problem is getting the edges of the bins in the right
> position. I came up with the following procedure which I believe
> computes and plots a 'correct' histogram (let me know if I'm wrong!):

Thanks to Liam for his sample program. I also have a histogram plotter called PLOTBIN. While it leaves the histogramming to you (unlike Liam's), it does a pretty good job of actually plotting the right thing.

It is distinguished by the ability to plot bins of different widths, which is especially nice on log-log graphs. You can specify a single binsize with the WIDTH keyword, or give a vector of widths, one for each bin.

Craig

<http://cow.physics.wisc.edu/~craigm/idl/idl.html>

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: PSYM=10 problem
Posted by [davidf](#) on Tue, 16 Nov 1999 08:00:00 GMT
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Liam Gumley (Liam.Gumley@ssec.wisc.edu) writes:

> A few months ago in this newsgroup, David Fanning convinced me that
> PSYM=10 would never give an accurate representation of a histogram, and
> that the only way to do it right is to plot the histogram yourself.

Indeed, if this is true, you must have been the *only* one
I convinced, Liam, if my mail is any indication. (I did
get a nice e-mail from a chap the other day who admitted
that after thinking I was feeding him a crock of bull for
over three months the light finally went on and he realized
I was right. :-)

In any case, I'm right, and I think this solution you
offer here may be a good one. I intend to approach it
in a slightly different way when I get the chance.
(I was looking at my notes just the other day.) But
there are only about, oh, 100 things in line first. :-(

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: PSYM=10 problem
Posted by [Laurent Chardon](#) on Tue, 16 Nov 1999 08:00:00 GMT
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Thank you Steve and Liam for your answers.

Laurent

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Remove NOT_THIS in the email address to reply.

Laurent Chardon <chardons@NOT_THISsprint.ca (Remove NOT_THIS to reply)>
wrote in message news:iSgY3.39227\$1v5.925927@newscontent-01.sprint.ca...

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>
> Thanks for your help.

>
> Laurent

>
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