Subject: Xrange ignored in Errorplot, why?
Posted by galaxytraveler42 on Thu, 11 Feb 2016 11:16:18 GMT
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When I use Errorplot and my errorbars reach outside the x or y-range, then IDl just ignores my range and plots something random.

E.g.
a = [3., 2., 1., 4.,3.]
b = [1., 4., 1., 2.5,2.5]
l = [1., 2., 1., 1.,1.]
k = [2., 2., 1., 2.,1.]

p3 = ERRORPLOT(a,b,l,k, LINESTYLE=6,SYMBOL='o', yrange=[0.,3.],xrange=[0.,5.])
this will give me xrange=[-1,6] and yrange=[0,3]

Going from the theory that the x-range will be expanded one to each side of my interval, I try:
p3 = ERRORPLOT(a,b,l,k, name=dataname1,LINESTYLE=6,SYMBOL='o',
yrange=[0.,3.],xrange=[1.,4.])
This will give me the correct x and y range!

However when I try this on my real dataset the theory doesn't hold. There my xrange=[0.,5.] ends up being xrange=[-1.5,5.], and next try of xrange=[1.,4.] ends up being xrange=[-2.5,4.2]

For extra info:
p3 = ERRORPLOT(a,b,l,k, LINESTYLE=6,SYMBOL='o')
Gives me a xrange=[0,5] and yrange=[-2,6]
while this:
p2 = PLOT(a,b, LINESTYLE=6,SYMBOL='o', yrange=[0,3],xrange=[0,5])
This will give me the correct x and y range.

I would appreaciate it, if anyone would like to test out those few lines of code and see if there are getting the same.

If anyone has an idea of the cause please let me know.

PS I have a mac version IDL 8.3.0