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Subject: Scatter plot in 3 dimensions

Posted by [ryba](#) on Mon, 30 Aug 1993 21:38:36 GMT

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Hi, I'm having a bit of difficulty getting a reasonable scatter plot of 3-d points using IDL 3.0.0 under SunOS 4.1.3 and OpenWindows. I have 2 structures, N and O each containing (double) fields called X,Y,and Z, and I'd like to scatter plot their differences. Here's the code I'm using:

```
xmin=min(n.x-o.x,max=xmax)
ymin=min(n.y-o.y,max=ymax)
zmin=min(n.z-o.z,max=zmax)
scale3,xrang=[xmin,xmax],yrang=[ymin,ymax],zrang=[zmin,zmax]
axis,xmin,ymin,zmin,xax=0,/t3d,xrange=[xmin,xmax]
axis,xmin,ymin,zmin,yax=0,/t3d,yrange=[ymin,ymax]
axis,xmin,ymin,zmin,zax=2,/t3d,zrange=[zmin,zmax]
plots,n.x-o.x,n.y-o.y,n.z-o.z,/t3d,psym=3
```

My problem is the axes aren't being drawn properly - they appear as a small blob at the origin. It may be a function of the data, since I remember commands like these working once. Is there some piece of the AXIS call that I'm missing? I'd also appreciate any canned routines since the blurb here doesn't do range rounding.

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Dr. Marty Ryba		Generation X:
MIT Lincoln Laboratory		Too young to be cynical,
<a href="mailto:ryba@ll.mit.edu">ryba@ll.mit.edu</a>		too old to be optimistic.
Of course nothing I say here is official policy!!!!		

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