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Subject: Re: Yet another user with poly\_fit problems  
Posted by on Thu, 03 Oct 2013 11:06:39 GMT  
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Den torsdagen den 3:e oktober 2013 kl. 00:14:56 UTC+2 skrev Gus:

>  
> Moreover, I expect to always have evenly spaced Y values, but increasingly spaced X values. Perhaps I need to look into the different fitting methods and determine whether one of them is acceptable for all future datasets.

This suggests to me that you should fit x as a function of y. (Although your example data set is not evenly spaced in y - perhaps the first y value should be 15.0 and not 15.9?)

Anyway, this works pretty nicely also with the data you specified, at least between the outermost y values:

```
c=poly_fit(y,x,4,/double)
cgplot,y,x,psym=9
yy=findgen(110)/20.+15
cgplot,yy,c[0]+yy*c[1]+yy^2*c[2]+yy^3*c[3]+yy^4*c[4],/over
```

or

```
cgplot,x,y,psym=9,/yno
cgplot,c[0]+yy*c[1]+yy^2*c[2]+yy^3*c[3]+yy^4*c[4],yy,/over
```

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