Subject: Re: log log scale scatterplot
Posted by benjamin.castellani on Tue, 05 Dec 2017 21:49:46 GMT
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On Tuesday, December 5, 2017 at 11:21:27 AM UTC-7, sid wrote:
> Hello all,
> I need to plot in log log scale and it is a scatter plot and I need to get the slope and intercept after fitting with linfit. This needs to be plotted in logarithmic space. And also the correlation coefficient needs to be calculated in log-log space.
>
> I have 10 x values and 10 y values
> is this correct plot, alog10(x), alog10(y)
> or like this plot, x,y,/xlog,/ylog but I need the values in order to find the linfit.
>
> how to do this
> thanks

```
x = [1487.,500,24,3455,2233]
y = [11,50,2400,32.3,111]

fit = linfit(alog(x),alog(y))
xfit=[min(alog(x)),max(alog(x))]
yfit = xfit*fit[1]+fit[0]


p =  plot(alog(x),alog(y),symbol='o',linestyle=6,color='blue',sym _filled=1)
p2 = plot(xfit,yfit,/overplot)
t = text(0.5,0.8,/normal,'Y = ' + strtrim(string(fit[1]),2) + ' X + ' + strtrim(string(fit[0]),2),color='red')
```