
Subject: Re: Speaking of curve fitting...

Posted by [Paul Van Delst\[1\]](#) on Thu, 31 Jan 2008 16:17:28 GMT

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Lasse Clausen wrote:

> ... run the following code, spot the difference and explain, s'il vous
> plait.

>

> nn = 1000

> xx1 = dindgen(nn)

> xx2 = timegen(nn, start=julday(5,25,1980,11,23))

>

> yy1 = sin(2.*2.*!pi*xx1/(nn-1.))

>

> d = poly_fit(xx1, yy1, 6, yfit=yfit1, /double)

> d = poly_fit(xx2, yy1, 6, yfit=yfit2, /double)

Try

 d = poly_fit(xx2-xx2[0], yy1, 6, yfit=yfit2, /double)

>

> !p.multi = [0,1,2]

> plot, xx1, yy1, /xstyle

> oplot, xx1, yfit1, linestyle=1

> plot, xx2, yy1, /xstyle

> oplot, xx2, yfit2, linestyle=1

>

> end

>

> I had a quick look at POLY_FIT.PRO but I can spot nothing which could

> explain the above behaviour. I run 32bit IDL 6.4 on some Linux.

>

> Cheers

> Lasse Clausen
