
Subject: Speaking of curve fitting...

Posted by [lasse](#) on Thu, 31 Jan 2008 15:50:06 GMT

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... 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)
```

```
!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
