
Subject: Polynomial Fitting question

Posted by [Andrew Rodger](#) on Fri, 02 Oct 2009 08:40:32 GMT

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Does anyone know of a way I can do the following and avoid the inner loop (ignore the outer loop),

I have an input array of data that is 11x512. I want to fit a polynomial, or 512 of them to be precise, to the data such that I now have 512 polynomial equations, or at least the coefficients for them.

e.g.

```
POLYFIT=FLTARR(3,512)
```

```
FOR t=0,Whatever DO BEGIN
```

```
    FOR i=0,512 DO BEGIN
```

```
        polyfit[* ,i]=POLY_FIT(X,Y[ * ,i],2)
```

```
    ENDFOR
```

```
ENDFOR
```

As I say I do not need to concern myself with the outer loop as there is a huge amount of other stuff going on outside of the inner loop that is both cunning and amazing and staggeringly awesome. But the fact that I have an inner loop is slowing down my processing no end and is driving me crazy, plus it truly takes away from the awesomeness.

I have had a look at Craig's MPFIT code etc and I don't think that it is the solution I need (unless I have missed something: Not unusual for me at all). Maybe one does not exist.

Any help is appreciated

Cheers
Andrew
