
Subject: SVDFIT error

Posted by [amin farhang](#) on Sat, 14 May 2016 06:42:10 GMT

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Dear All,

I'm trying to fit a function to some data with SVDFIT function.

But unfortunately although the A vector is defined, program return % Variable is undefined: A.
What is happening?

CODE:

```
FUNCTION fnc, X ,M
```

```
  RETURN,[ [X^A[1]], [A[0]*A[1]*X^(A[1]-1.0)] ]
```

```
END
```

```
t = [13.05, 13.15, 13.2500, 13.3500, 13.4500, $  
13.5500, 13.6500, 13.7500, 13.85, 13.95, 14.05, $  
14.15, 14.25, 14.35, 14.45, 14.55]  
t = 10^t
```

```
r = [3.61683, 3.64082, 3.63685, 3.64338, 3.61213, $  
3.64366, 3.61047, 3.51532, 3.51648, 3.48258, $  
3.48976, 3.48247, 3.44729, 3.21, 3.52913, 3.28420]
```

```
yr = [0.0466166, 0.0641466, 0.103431, 0.127357, $  
0.177178, 0.221442, 0.277869, 0.405861, 0.439394, $  
0.519617, 0.801912, 0.792799, 0.57920, 0.13516, $  
0.13516, 0.43342]
```

```
A = [3.,1.]
```

```
result = SVDFIT(t,r,A=A,MEASURE_ERRORS=yr,$  
FUNCTION_NAME='fnc', SIGMA=SIGMA, YFIT=YFIT)
```

Best regards,

Subject: Re: SVDFIT error

Posted by [wlandsman](#) on Sat, 14 May 2016 18:56:01 GMT

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Um, your function is using the variable A but what is passed into it is the variable M

```
> FUNCTION fnc, X ,M  
>   RETURN,[ [X^A[1]], [A[0]*A[1]*X^(A[1]-1.0)] ]  
> END
```

On Saturday, May 14, 2016 at 2:42:13 AM UTC-4, Amin Farhang wrote:

```
> Dear All,  
>  
> I'm trying to fit a function to some data with SVDFIT function.  
> But unfortunately although the A vector is defined, program return % Variable is undefined: A.  
> What is happening?  
>  
> CODE:  
>  
> FUNCTION fnc, X ,M  
>   RETURN,[ [X^A[1]], [A[0]*A[1]*X^(A[1]-1.0)] ]  
> END  
>  
> t = [13.05, 13.15, 13.2500, 13.3500, 13.4500, $  
> 13.5500, 13.6500, 13.7500, 13.85, 13.95, 14.05, $  
> 14.15, 14.25, 14.35, 14.45, 14.55]  
> t = 10^t  
>  
> r = [3.61683, 3.64082, 3.63685, 3.64338, 3.61213, $  
> 3.64366, 3.61047, 3.51532, 3.51648, 3.48258, $  
> 3.48976, 3.48247, 3.44729, 3.21, 3.52913, 3.28420]  
>  
> yr = [0.0466166, 0.0641466, 0.103431, 0.127357, $  
> 0.177178, 0.221442, 0.277869, 0.405861, 0.439394, $  
> 0.519617, 0.801912, 0.792799, 0.57920, 0.13516, $  
> 0.13516, 0.43342]  
>  
>  
> A = [3.,1.]  
> result = SVDFIT(t,r,A=A,MEASURE_ERRORS=yr,$  
> FUNCTION_NAME='fnc', SIGMA=SIGMA, YFIT=YFIT)  
>  
>  
> Best regards,
```
