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:
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> END
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> 13.5500, 13.6500, 13.7500, 13.85, 13.95, 14.05, $
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> t = 10^t
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>
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> A = [3.,1.]
> result = SVDFIT(t,r,A=A,MEASURE_ERRORS=yr,$
> FUNCTION_NAME='fnc', SIGMA=SIGMA, YFIT=YFIT)
>
>
> Best regards,