Subject: Re: Derivatives
Posted by on Tue, 19 Nov 2013 10:49:53 GMT
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Den tisdagen den 19:e november 2013 kl. 11:20:40 UTC+1 skrev fd_...@mail.com:
> Hi
>
> I want to use the simple differentiation formula instead of DERIV function(3-point, Lagrangian interpolation):
>
> Derivative=change in y/change in x
>
> I wrote my code like this but my results are absolutely wrong and I don't see where my mistake is.
>
> derivative= (A[1:*]-A)/ (t[1:*]-t)
> derivative=[0,derivative]

Looks OK to me. In what way is the result "absolutely wrong"?

> I did the last step i.e. derivative=[0,derivative] because I need an array[2001,1] instead of array[2000,1].

I'm not sure why you expect a two-dimensional array but adding an element seems appropriate, since you removed one by doing selecting 1:*. I don't know how much sense it makes to add a zero (derivative =[derivative[0],derivative] might be more useful) but you are the only who knows your data.