
Subject: Re: derivative function in IDL similar as DIFF in matlab

Posted by [lecacheux.alain](#) on Tue, 12 Nov 2013 10:27:24 GMT

[View Forum Message](#) <> [Reply to Message](#)

Le mardi 12 novembre 2013 11:08:11 UTC+1, Jie Zhou a écrit :

> Is there a derivative function in IDL similar as DIFF in matlab? I think the DERIV is different from DIFF.

The DERIV function in IDL uses a second order formula for the discrete differenciation (known as 3-point Lagrange interpolation). Afaik, Matlab DIFF computes a simple difference given, in IDL, by $x - \text{shift}(x,1)$, where x is your data series.

alx.
