Subject: Re: how to create a LOG array from A to B Posted by Michael Galloy on Thu, 12 Jan 2012 19:52:13 GMT

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On 1/12/12 12:27 PM, nata wrote:

> Hello guys,

>

- > If I want to create an array of N positions from A to B I can do it
- > like this:
- > result=FINDGEN(N)*(B-A)/(N-1)+A

>

- > Right now I would like to create the same array but with a logaritmic
- > "distribution" and for any positive A and B.
- > For example, for A = 0, B = 1 and N=10 the result should be
- > ALOG10(1+FINDGEN(10))

>

- > This is easy if A and B are powers of 10 but I don't know how to solve
- > this problem with any other numbers.
- > Thnak you in advance for your help,

>

> nata

Just use your result at the top, but use 10.\(^a\) and 10.\(^b\) instead of a and b:

IDL> plot, alog10(findgen(n) * $(10.^b - 10.^a) / (n - 1.) + 10.^a$)

Mike

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Modern IDL, A Guide to Learning IDL: http://modernidl.idldev.com

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