
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 :
> $\text{result} = \text{FINDGEN}(N) * (B - A) / (N - 1) + A$
>
> Right now I would like to create the same array but with a logarithmic
> "distribution" and for any positive A and B.
> For example, for A = 0, B = 1 and N=10 the result should be
> $\text{ALOG10}(1 + \text{FINDGEN}(10))$
>
> 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, $\text{alog10}(\text{findgen}(n) * (10.^b - 10.^a) / (n - 1.) + 10.^a)$

Mike

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

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