
Subject: Re: interpolation question

Posted by [Jo Klein](#) on Mon, 24 Apr 2006 19:04:55 GMT

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

Hi Chen,

VALUE Locate works differently: It returns the location as the interval in which your value is to be found, `vec[location]<=value<vec[location+1]`

It's not designed to be a nearest-neighbour-style routine. Granted, the function name is a bit misleading ...

Cheers,

Jo

chen123.dian@gmail.com wrote:

> Hi,

>

> Thanks so much for all suggestions here.

>

> I am so wonder that why IDL has no simple function like MATLAB's

> 'interp2'. Another problem is for value_locate. Some suggestions

> mentioned to use value_locate. Here is a example to show my problem.

>

> IDL> vec = [2.0, 5.0, 8.0, 10.0]

> IDL> print, vec

> 2.00000 5.00000 8.00000 10.0000

> IDL> loc = VALUE Locate(vec, [0.0, 4.5, 5.0, 6.0, 12.0])

> IDL> print, loc

> -1 0 1 1 3

>

> We can see the value of "4.5" corresponds to index location of "0".

> Actually, the value of "4.5" should correspond to index location of "1"

> because the value of "4.5" is closer to the value of "5.0" having index location of "1".

>

> Thanks.

>

> Regards,

>

> Chen

>
