
Subject: Re: Addressing 3D arrays different from 2D arrays?

Posted by [Foldy Lajos](#) on Tue, 06 Nov 2007 17:27:59 GMT

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On Tue, 6 Nov 2007, Jaron Kurk wrote:

> Dear readers,
>
> Apologies if this question has long been answered, but I could not
> find anything on it.
>
> Is there some fundamental difference in addressing 3D arrays and 2D
> arrays? In IDL 6.3 (and GDL), the following code fills a 2D array with
> a circle of 1's but a slice of a 3D array with a square of 1's, while
> I would expect just the same area filled with 1's as for the 2D case.
> Note that the use of reform() does not cause the difference, I have
> checked that.
>
> xidx=[5,4,5,6,3,4,5,6,7,4,5,6,5]
> yidx=[3,4,4,4,5,5,5,5,5,6,6,7]
> test2d = bytarr(10,10)
> test3d = bytarr(10,10,10)
> test2d[xidx,yidx] = 1

array subscripts

> test3d[0,xidx,yidx] = 1

mixed scalar and array subscripts. Different rules :-)

try: test3d[lonarr(13),xidx,yidx] = 1

regards,
lajos
