Subject: Addressing 3D arrays different from 2D arrays?
Posted by Jaron Kurk on Tue, 06 Nov 2007 17:13:06 GMT
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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=[3,4,4,4,5,5,5,5,5,6,6,6,7]
test2d = bytarr(10,10)
test3d = bytarr(10,10,10)
test2d[xidx,yidx] = 1
test3d[0,xidx,yidx] = 1
print,test2d,total(test2d)
print,reform(test3d[0,*,*]),total(test3d)
```

If anybody could enlighten me, I would appreciate it!

Jaron Kurk.