Subject: Re: Addressing 3D arrays different from 2D arrays?
Posted by Spon on Wed, 07 Nov 2007 11:15:05 GMT
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Spon wrote:
> I can get rid of it, but I'm not sure why you're getting a square (as
> opposed to just junk):
>
Ok, now *I'm* confused:

*** Code

```
pro threedtest
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]

print, 'Fixed version.'
zidx = REPLICATE (0, N_ELEMENTS (xidx))
test2d = bytarr(10,10)
test3d = bytarr(10,10,10)
test2d[xidx,yidx] = 1
test3d[zidx,xidx,yidx] = 1
print,test2d,total(test2d)
print,reform(test3d[0,*,*]),total(test3d)
print, ''
print, 'Original version.'
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)
print, ''
print, 'Concatenated version.'
subscripts = [0, xidx, yidx]
test2d = bytarr(10,10)
test3d = bytarr(10,10,10)
test2d[xidx,yidx] = 1
test3d[subscripts] = 1
print,test2d,total(test2d)
print,reform(test3d[0,*,*]),total(test3d)

return
end
```

*** End of Code

...

IDL> Concatenated version.

```
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   1   0   0   0   0
   0   0   0   0   1   1   1   0   0   0
   0   0   0   1   1   1   1   1   0   0
   0   0   0   0   1   1   1   0   0   0
   0   0   0   0   0   1   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
      13.0000
   1   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
   0   0   0   0   0   0   0   0   0   0
      6.00000
```

***End of Output

Why does OP get a nice square whereas I just get a solitary 1 in the corner? :-(
What is concatenating before defining the subscripting causing IDL to do differently?

Just curious,
Chris
