
Subject: Q: How to dereference a subset 'quickly'.
Posted by [Wendy Gale](#) on Thu, 24 Jul 1997 07:00:00 GMT
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I'm trying to cut down on processing time so I'd like to avoid using a FOR loop. I have a set of pixels I grab by DEFROI representing cells from a tiff image. Either I save each cell's pixels in a separate pointer of a PTRARR or as a pair of subscripts from one long vector of pixel subscripts. At a given frame of my movie, I would like to display any subset of these cells in a different color.

I'm posting two examples that don't use FOR loops that fail.
Could anyone think of a way I might do this efficiently.

Thanks,
Wendy

```
IDL> set=[12,23,34,45,56,67,78,89,90,110,120]
IDL> start_points=[0,2,6]
IDL> end_points=[1,5,10]
IDL> subsets=[0,1]
IDL> result=set(start_points(subsets):end_points(subsets))
% Expression must be a scalar in this context: <INT      Array[2]>.
% Execution halted at: $MAIN$
```

```
IDL> m=intarr(6,2)
IDL> m(*,0)=[1,0,1,0,1,0]
IDL> m(*,1)=[1,2,1,2,1,2]
IDL> Subset_1=where(m(*,0) EQ 1)
IDL> Subset_2=where(m(*,1) EQ 2)
IDL> print, Subset_1
      0      2      4
IDL> print, Subset_2
      1      3      5
IDL> c=ptrarr(6)
IDL> c(0)=ptr_new([12])
IDL> c(1)=ptr_new([23,34])
IDL> c(2)=ptr_new([45,56,67])
IDL> c(3)=ptr_new([78])
IDL> c(4)=ptr_new([89,90])
IDL> c(5)=ptr_new([100,110,120])
IDL> print, *c(2)
     45     56     67
IDL> print, *c(Subset_2)
% Expression must be a scalar in this context: <POINTER  Array[3]>.
% Execution halted at: $MAIN$
```
