
Subject: need help on ROI subscript
Posted by [lsyrik](#) on Fri, 17 Sep 1999 07:00:00 GMT
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Hi,

I need to calculate total counts inside a defined ROI in the multyframed image im256=IntArr(256,256,30). I define ROI in the first frame im256(*,*,0). Q is a subscript. Then I am trying to calculate total counts inside ROI for every image. It starts fine for the first frame and gives the error on the second cycle:

```
% Subscript range values must be >= 0, < size: IM256.  
% Execution halted at: DISPLXE_DEFRL 381  
/export/home/rsi/idl_5.2/myfiles/DisplXe.pro  
% WIDGET_PROCESS_EVENTS  
% $MAIN$
```

What does it mean? Why subscript Q works fine for the first frame and stops on the second?

Below I placed the problem event handler:

```
*****  
;  
Pro DisplXe_DEFRL, event  
  
widget_Control, event.top, Get_UValue=info, /No_Copy  
im=IntArr(64,64,30)  
  
FOR k=0, 29 DO BEGIN  
im[*,*,k]=(*info.image)[*,*,4*k]+(*info.image)[*,*,4*k+1]+(* info.image)[*,*,4  
*k+2]+(*info.image)[*,*,4*k+3] ENDFOR  
  
new_base=Widget_Base(Title=info.pname+' Define ROI ',  
Group_leader=event.top)  
draw20ID=Widget_Draw(new_base, Xsize=256, YSize=256, /BUTTON,  
/MOTION);Create a draw widget  
;that will return both button and motion events  
  
Widget_Control, new_base, /Realize  
Widget_Control, draw20ID, Get_Value=wid  
wset,wid;  
  
; rebin 20 sec slices to 256x256
```

```

im256=IntArr(256,256,30)
FOR j=0, 29 DO BEGIN
  im256=rebin (im[*,*,j],256,256)
ENDFOR

TVScl, im256(*,*,0)

; define ROI
Q=CW_DEFROI(draw20ID)
help, Q

; array for counts
cnts=LonArr(30)

; to find TOTAL counts inside ROI in every image !!!!!!! gives the
; error on the second pass (k=1)
FOR k=0, 29 DO BEGIN
  tmp=im256(*,*,k)
  cnts[k]= TOTAL(tmp(Q))
ENDFOR

PRINT, cnts

plot, cnts

widget_Control, event.top, Set_UValue=info, /No_Copy
END

*****
;
```

Thanks in advance,

Leonid Syrkin

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