
Subject: Re: TVRD

Posted by [R.Bauer](#) on Thu, 05 Jun 2003 19:39:27 GMT

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Here is another example which shows the problem.

```
PRO my_color
  DEVICE,decomposed=0
  WINDOW,1,xs=300,ys=300,xpos=0,ypos=300,title='MASTER'

  z=DIST(300)

  r0=MAKE_ARRAY(256,/index,/BYTE)
  g0=MAKE_ARRAY(256,/index,/BYTE)-128b
  b0=128b-MAKE_ARRAY(256,/index,/BYTE)

  TVLCT,r0,g0,b0

  TV,z

  TVLCT,r,g,b,/get

  PRINT,'Difference between set and get'
  print,'max diff.:','min diff.: '
  PRINT,'red:',MAX(r0-r,MIN=m),m
  PRINT,'green',MAX(g0-g,MIN=m),m
  PRINT,'blue',MAX(b0-b,MIN=m),m

  col_def=BYTE(STRING(r,format='(i3)')+ $
    STRING(g,format='(i3)')+ $
    STRING(b,format='(i3)'))
  ix=WHERE(col_def EQ 32b)
  col_def[ix]=BYTE('0')
  col_def=STRING(col_def)
  img=TVRD(true=1)
  WINDOW,2,xs=300,ys=300,xpos=300,ypos=300,title='COPY'
  TV,img,/true
  col_img=BYTE(STRING(img[0,*,*],format='(I3)')+ $
    STRING(img[1,*,*],format='(I3)')+ $
    STRING(img[2,*,*],format='(I3)'))
  ix=WHERE(col_img EQ 32b)
  col_img[ix]=BYTE('0')
  col_img=STRING(col_img)

  new_img=MAKE_ARRAY(300,300,/BYTE)
  n_col_img=SIZE(col_img,/N_ELEMENTS)
  FOR i=0L,n_col_img-1 DO BEGIN
```

```

ix=WHERE(col_def EQ col_img[i],count_ix)
IF count_ix GT 0 THEN BEGIN
    new_img[i]=ix[0]
ENDIF
ENDFOR
re=col_img[uniq(col_img,SORT(col_img))]
HELP,re
WINDOW,3,xs=300,ys=300,xpos=600,ypos=300,title='RESULT'
TV,new_img

```

```

PRINT,'my defined color tripled'
PRINT,TRANSPPOSE(col_def[sort(col_def)])
PRINT,'=====
PRINT,'true color color tripled'
PRINT,TRANSPPOSE(re)
PRINT,'=====
PRINT,'many colors aren"t defined, but still there!!'
PRINT,'result shows only colors which are defined'

```

END

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a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html
