
Subject: image display by IDL

Posted by [fisher01](#) on Fri, 28 Dec 2001 04:46:49 GMT

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Hi, folks;

A member of our group meet a problem, she wants to display a raw multispectral satellite image. She writes a program using IDL (Interactive Data Language). At first she displays a .JPEG image as the interface, and then she try to display the raw satellite image but she couldn't get the correct color mapping table. Could you please tell us how to get the correct color mapping table for image display? Now she can get the correct color mapping table if she just opens .JPEG image or raw image, respectively.

Thank you very much for your help.

L.Zhang

P.S.

here is her program:

```
pro picture
  tvlct,rr,gg,bb,/get
  image=READ_IMAGE('picture.jpg')
  if (SIZE(image,/N_DIM) EQ 3) THEN $
    nimage=COLOR_QUAN(image,1,r,g,b)
    nnimage=CONGRID(nimage,!D.X_SIZE,!D.Y_SIZE)
    DEVICE,DECOMPOSED=0
    TVLCT,r,g,b
    tv,nnimage
    tvlct,rr,gg,bb
end
```

```
pro display
```

```
....
....
....
```

```
orig_image =fordisplay(106)
new_image=intarr(x,y)
for a=0,x-1 do begin
  for b=0,y-1 do begin
    new_image[a,y-1-b]=orig_image[a,b]
  endfor
endfor
```

```
TVSCL,CONGRID(new_image, x_size, y_size)
```

```
....
```

```
....
```

```
end
```

```
function fordisplay,band
```

```
COMMON UNITNUM
```

```
point_lun,w,0
```

```
head=lonarr(11)
```

```
readu,w,head
```

```
point_lun,w,0
```

```
image=intarr(head[0],head[1])
```

```
point_lun,w,head[10]+(band-1)*head[0]*head[1]*2L
```

```
readu,w,image
```

```
return,image/4095.0*255.0
```

```
end
```
