
Subject: Re: HELP! Annoying IDL glitches...

Posted by [Liam Gumley](#) on Thu, 16 May 1996 07:00:00 GMT

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deb <summa@lanl.gov> wrote:

- > 2. Why does XLOADCT update color tables in real time on the Mac
- > but not on the PC?

You probably are using a PC display driver with more than 256 colors.
The same thing happens on my SGI workstation when I run it in 24 bit mode.
Try the following commands on the PC immediately after you start IDL:

```
device, pseudo=8
window, 0, colors=256
print, d.n_colors
```

- > 5. Can one open a single (large) graphics window with scroll bars?
- > (Not the same as the SLIDE_IMAGE command, but along the lines of the
- > scroll window which is incorporated into that)

```
base = widget_base()
xsize = 1024 & ysize = 1024 & x_scroll_size = 512 & y_scroll_size = 512
draw = widget_draw( base, xsize = xsize, ysize = ysize, $
  x_scroll_size = x_scroll_size, y_scroll_size = y_scroll_size )
widget_control, base, /realize
widget_control, draw, get_value = window_id
```

- > 6. Suppose one opens a datafile which contains an ascii header and then
- > a bunch of binary junk which ends in an ascii-readable tag. Following
- > the header is a bunch of binary data. I'd like to piece thru the file
- > until i find the final ascii-readable tag which denotes the start of the
- > actual data.

Try the following with your own ASCII string tags:

```
function findtag, file, string
```

```
; Return the start byte of the first occurrence of
; a string within a file. Return value is -1 if
; the string is not found.
```

```
; read the entire data file as a byte array
```

```
openr, lun, file, /get_lun
info = fstat( lun )
data = bytarr( info.size )
readu, lun, data
```

```
free_lun, lun

; convert string to a byte tag

tag = byte( string )
tagsize = n_elements( tag )
if tagsize lt 1 then goto, finish

; find first occurrence of tag within data

loc = where( data eq tag( 0 ), count )
start = -1
if count lt 1 then goto, finish

for i = 0, count - 1 do begin
    byte1 = loc( i )
    byte2 = byte1 + tagsize - 1
    compare = data( byte1 : byte2 ) - tag
    tmploc = where( compare eq 0B, null )
    if null eq tagsize then begin
        start = byte1
        goto, finish
    endif
endfor

finish:
return, start

end
```
