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Subject: Re: unsupported X Window

Posted by [Martin Schultz](#) on Tue, 22 Jun 1999 07:00:00 GMT

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Ramin Sina wrote:

```
>
> % Unsupported X Windows visual (class: StaticGray, depth: 0).
> Substituting default (class: <UndefinedVisual>, Depth: 0).
> % Execution halted at: $MAIN$
>
```

You are probably working with 32 bits colordepth which is not supported by IDL. There have been a couple of postings recently about this, check [www.deja.com](http://www.deja.com) for more information. If you set your X server to 8 bpp (e.g. `startx -- -bpp 8`) IDL should work fine. Better of course is 24 bpp, but there are other programs that cause trouble in this mode, and for my graphics card (Permedia II) it didn't work.

Liam Gumley has written a tool to set the correct display parameters. I hope he doesn't mind if I attach it here. Make sure you start with no startup file, then call `colorset` at the beginning of your session. Then call `colors` which defines a few drawing colors. Then try `plot,findgen(10),color=1` and you should get a magenta line. (didn't work for me unfortunately)

Martin.

--

```
|||||-----////////////////////
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PRO COLORSET, RETAIN=RETAIN, DECOMPOSED=DECOMPOSED, QUIET=QUIET
```

```
;+
; NAME:
;   COLORSET
;
; PURPOSE:
;   Select true color (24 bit) if available, or pseudo color (8 bit) visual
;   consistently on X, Windows, and Macintosh.
;
; CATEGORY:
;   Startup utilities.
;
```

```

; CALLING SEQUENCE:
;   COLORSET
;
;
; INPUTS:
;   None
;
; OPTIONAL INPUTS:
;   None
;
; KEYWORD PARAMETERS:
;   RETAIN      Specifies the default method used
;               for backing store when creating new windows.
;               0 => No backing store
;               1 => Server or window system performs backing store
;               2 => Make IDL perform backing store (DEFAULT)
;   DECOMPOSED  Specifies the the way in which graphics
;               color index values are interpreted when using displays with
;               decomposed color (TrueColor or DirectColor visuals).
;               0 = > Color indices given by single 8 bit values (DEFAULT)
;               1 = > Color indices given by three 8 bit values
;   QUIET       If set, no color information is printed
;               (default is to print the color table size, and number of colors)
;
; OUTPUTS:
;   None
;
; OPTIONAL OUTPUTS:
;   None
;
; COMMON BLOCKS:
;   None
;
; SIDE EFFECTS:
;   This routine changes the IDL visual for the rest of the IDL session.
;
; RESTRICTIONS:
;   Only affects X, WIN, and MAC displays.
;   Only has an effect if run before any windows have been
;   created, and if no DEVICE commands have been executed.
;
; EXAMPLE:
; ;Execute the following command immediately after IDL startup.
; colorset
;
; MODIFICATION HISTORY:
;   Written by: Liam.Gumley@ssec.wisc.edu
;-

```

```
rsc_id = "$Id: colorset.pro,v 1.2 1999/04/20 15:04:29 gumley Exp $"
```

```
;- Check keyword values
```

```
if n_elements( retain ) ne 1 then retain = 2  
if n_elements( decomposed ) ne 1 then decomposed = 0
```

```
;- Check keyword flags
```

```
if not keyword_set( quiet ) then quiet = 0
```

```
;- Check if a window has been created previously
```

```
if !d.window ge 0 then begin  
  message, 'Window already created in this session - COLORSET may have no effect.', /continue  
  message, 'To ensure COLORSET works, call it before any windows are created.', /continue  
endif
```

```
;- Test for supported displays
```

```
supported = 0
```

```
case 1 of
```

```
  ;- Windows case (visual cannot be changed)
```

```
  !d.name eq 'WIN' : begin  
    device, decomposed=decomposed, retain=retain  
    supported = 1  
  end
```

```
  ;- X and Macintosh case (will revert to 8 bit visual if 24 bit fails)
```

```
  !d.name eq 'X' or !d.name eq 'MAC' : begin  
    device, true_color=24, decomposed=decomposed, retain=retain  
    supported = 1  
  end
```

```
  ;- Unsupported display
```

```
  else : message, 'Not supported on the ' + !d.name + ' device', /continue
```

```
endcase
```

```
;- If display supported, lock in window characteristics, and report what happened
```

```
if supported then begin
```

```
;- Create a window to lock in the visual type for this IDL session
```

```
old_window = !d.window  
window, /free, /pixmap  
wdelete, !d.window  
if old_window ge 0 then wset, old_window
```

```
;- Report what happened
```

```
if not quiet then begin  
  print, 'Display device :', !d.name  
  print, 'Color table size: ', strcompress( !d.table_size, /remove_all )  
  print, 'Number of colors: ', strcompress( !d.n_colors, /remove_all )  
  print, "  
endif
```

```
endif
```

```
END
```

```
PRO COLORS, START=START, NAMES=NAMES, VALUES=VALUES
```

```
;  
;+  
; NAME:  
;   COLORS  
;  
; PURPOSE:  
;   Load sixteen graphics colors into the color table.  
;  
; CATEGORY:  
;   Startup utilities.  
;  
; CALLING SEQUENCE:  
;   COLORS  
;  
; INPUTS:  
;   None  
;  
; OPTIONAL INPUTS:  
;   None  
;  
; KEYWORD PARAMETERS:  
;   START   Start index in the color table where the graphics  
;           colors will be loaded (default = 0).  
;   NAMES   If set to a named variable, returns an array of color names.  
;   VALUES If set to a named variable, returns an array of color index values.  
;  
; OUTPUTS:
```

```

; None
;
;
; OPTIONAL OUTPUTS:
; None
;
; COMMON BLOCKS:
; None
;
; SIDE EFFECTS:
; This routine modifies the color table.
;
; RESTRICTIONS:
; None
;
; EXAMPLE:
; ; Display a greyscale image with color text overlaid.
; device, decomposed=0
; window, /free, xs = 500, ys = 500
; colors, names=names
; bottom = 16B
; ncolors = !d.table_size - bottom
; loadct, 0, bottom=bottom, ncolors=ncolors
; tv, bytscl( dist(256), top=ncolors-1 ) + bottom
; for i=1,8 do xyouts, 30*i, 30*i, names[i], /device, charsize=1.5, color=i
;
; MODIFICATION HISTORY:
; Written by: Liam.Gumley@ssec.wisc.edu
;
; NOTES:
; The color table assignments are as follows
; Entry Color
; -----
; 0 => Black
; 1 => Magenta
; 2 => Cyan
; 3 => Yellow
; 4 => Green
; 5 => Red
; 6 => Blue
; 7 => White
; 8 => Navy
; 9 => Gold
; 10 => Pink
; 11 => Aquamarine
; 12 => Orchid
; 13 => Gray
; 14 => Sky
; 15 => Beige

```

```
;-  
  
rcs_id = "$Id: colors.pro,v 1.2 1999/04/20 15:14:45 gumley Exp $"  
  
;- Check keyword values  
  
if n_elements( start ) ne 1 then start = 0  
  
;- Load graphics colors (derived from McIDAS)  
  
r = [0,255,0,255,0,255,0,255,0,255,255,112,219,127,0,255]  
g = [0,0,255,255,255,0,0,255,0,187,127,219,112,127,163,171]  
b = [0,255,255,0,0,0,255,255,115,0,127,147,219,127,255,127]  
tvlct, r, g, b, start  
  
;- Set return keywords  
  
names = [ $  
  'Black', 'Magenta', 'Cyan', 'Yellow', 'Green', 'Red', 'Blue', 'White', $  
  'Navy', 'Gold', 'Pink', 'Aquamarine', 'Orchid', 'Gray', 'Sky', 'Beige' ]  
values = byte( indgen( 16 ) + start )  
  
END
```

## File Attachments

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- 1) [colorset.pro](#), downloaded 153 times
  - 2) [colors.pro](#), downloaded 144 times
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