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Subject: TVRD, true color, indexed color, bit depth  
Posted by [MarioIncandenza](#) on Mon, 25 Sep 2006 18:46:29 GMT  
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TVRD has the following behavior, explained in the help: "If the display is a 24-bit display, and both the CHANNEL and TRUE parameters are absent, the maximum RGB value in each pixel is returned."

Can I just say, this can produce some amazing results.

Anyway, now that I have figured out what it is doing, how do I make it stop doing that? In my experience, setting DEVICE,DECOMPOSED=0 and loading a color table have always given the right results with TVRD (map of color indices). But not this time. For some reason, even after calling DEVICE,DECOMPOSED=0, IDL still thinks my display is 24-bit. How do I fix?

IDL> help,/device

Available Graphics Devices: CGM HP LJ NULL PCL PRINTER PS REGIS TEK X Z

Current graphics device: X

Server: X11.0, WRQ, Inc., Release 8

Display Depth, Size: 24 bits, (2560,1024)

Visual Class: TrueColor (4)

Bits Per RGB: 8 (8/8/8)

Physical Color Map Entries (Emulated / Actual): 256 / 256

Colormap: Private, 16777216 colors. Translation table: Bypassed

Graphics pixels: Combined, Dither Method: Ordered

Write Mask: 16777215 (decimal) ffffff (hex)

Graphics Function: 3 (copy)

Current Font: <default>, Current TrueType Font: <default>

Default Backing Store: Req from Server.

Window Status: -----

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