Subject: seg fault with simple tv or tvrd()
Posted by kirt on Tue, 21 Aug 2007 16:43:14 GMT
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Hi
I'm trying to resurrect IDL on a ubuntu box and am struggling with a
basic tv (or tvrd) seg fault.
I feel like an idiot asking this, but I can't perform a simple tv or
tvrd() without a segmentation fault.

The simple thing I'm doing is:

```
buf = bindgen(256,256)
device,DECOMP=0
window,/FREE,XS=256,YS=256
device,GET_DECOMPOSED=decomp
print,'!d.n_colors=',!d.n_colors,', DECOMPOSED=',decomp
help,/device
tv,buf
```

What I get is:

```
IDL Version 6.3 (linux x86 m32). (c) 2006, Research Systems, Inc.
Installation number: 2330-1.
Licensed for use by: PET IMAGING SERVICE, VAMC, MINNEAPOLIS

Initial setup: quiet=1, order=0
IDL> buf = bindgen(256,256)
IDL> device,DECOMP=0
% Unsupported X Windows visual (class: PseudoColor, depth: 8).
  Substituting default (class: TrueColor, Depth: 24).
IDL> window,/FREE,XS=256,YS=256
IDL> device,GET_DECOMPOSED=decomp
IDL> print,'!d.n_colors=',!d.n_colors,', DECOMPOSED=',decomp
!d.n_colors=    16777216, DECOMPOSED=           0
IDL> help,/device
Available Graphics Devices: CGM HP LJ NULL PCL PRINTER PS REGIS TEK X
Z
Current graphics device: X
   Server: X11.0, The X.Org Foundation, Release 70200000
   Display Depth, Size: 24 bits, (1280,1024)
   Visual Class: TrueColor (4)
   Bits Per RGB: 8 (8/8/8)
   Physical Color Map Entries (Emulated / Actual): 256 / 256
   Colormap: Shared, 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: ----------
id typ(x, y, backing store) id typ(x, y,
backing store)
32: Win(256, 256, Req from Server)
IDL> tv,buf
Segmentation fault (core dumped)

(the pseudo-color msg comes from my .idlrc file which contains:

!QUIET = 1
!ORDER = 0
print,!quiet,!order,FORMAT='("Initial setup: quiet=",i1,",
order=",i1)'
; this will default to truecolor if pseudocolor is not supported
device,pseudo=8,decomposed=0

System details are:
kunbuntu 7.04 (32 bit), 4GB memory, dual xeon 3.2 GHz processors,
dirac 59%> uname -a
Linux dirac 2.6.20-16-generic #2 SMP Thu Jun 7 20:19:32 UTC 2007 i686
GNU/Linux
dirac 62%> lspci | grep VGA
01:00.0 VGA compatible controller: nVidia Corporation NV34 [GeForce FX
5200] (rev a1)
dirac 63%> xdpyinfo
...
name of display: :0.0
version number: 11.0
vendor string: The X.Org Foundation
vendor release number: 70200000
X.Org version: 7.2.0
maximum request size: 16777212 bytes
motion buffer size: 256
supported pixmap formats:
depth 1, bits_per_pixel 1, scanline_pad 32
depth 4, bits_per_pixel 8, scanline_pad 32
depth 8, bits_per_pixel 8, scanline_pad 32
depth 15, bits_per_pixel 16, scanline_pad 32
depth 16, bits_per_pixel 16, scanline_pad 32
depth 24, bits_per_pixel 32, scanline_pad 32
depth 32, bits_per_pixel 32, scanline_pad 32
number of extensions: 27
BIG-REQUESTS Composite DAMAGE DPMS Extended-Visual-
Information
MIT-SCREEN-SAVER MIT-SHM MIT-SUNDRY-NONSTANDARD
RANDR RENDER SECURITY SHAPE SYNC TOG-CUP X-

```
Resource
   XAccessControlExtension    XC-APPGROUP    XC-MISC    XFIXES
   XFree86-Bigfont    XFree86-DGA    XFree86-Misc    XFree86-
VidModeExtension
   XInputExtension    XKEYBOARD    XTEST    XVideo
default screen number:    0
number of screens:    1
screen #0:
  dimensions:    1280x1024 pixels (382x302 millimeters)
  resolution:    85x86 dots per inch
  depths (7):    24, 1, 4, 8, 15, 16, 32
  depth of root window:    24 planes
  number of colormaps:    minimum 1, maximum 1
  default colormap:    0x20
  default number of colormap cells:    256
  preallocated pixels:    black 0, white 16777215
  options:    backing-store NO, save-unders NO
  number of visuals:    3
  default visual id:  0x21
  visual:
    visual id:    0x21
    class:    TrueColor
    depth:    24 planes
    available colormap entries:    256 per subfield
    red, green, blue masks:    0xff0000, 0xff00, 0xff
    significant bits in color specification:    8 bits
...

Thanks
-kirt
```