## Subject: A whine about default device settings Posted by Kenneth P. Bowman on Sat, 09 Feb 2008 21:42:01 GMT View Forum Message <> Reply to Message

The new 24-bit Z-buffer device is nice for generating graphics on a device without a display, as is common with servers, for example. It is easier to configure and use than Xvfb, for example.

Unfortunately, some of the default device settings are different between the Z-buffer device and the X-Windows device. (I haven't checked the WIN device because I don't have a Windows machine).

```
IDL> window, xsize=1024, ysize=768
IDL> help, !d, /str
** Structure !DEVICE, 17 tags, length=84, data length=84:
 NAME
              STRING
 X CH SIZE
                 LONG
                                 6
 Y CH SIZE
                                10
                 LONG
IDL> set plot, 'z'
IDL> device, set_resolution = [1024, 768], set_pixel_depth = 24
IDL> help, !d, /str
** Structure !DEVICE, 17 tags, length=84, data length=84:
              STRING
 NAME
                        'Z'
 X CH SIZE
                 LONG
                                 8
 Y_CH_SIZE
                                12
                 LONG
```

Because IDL scales margins and plot sizes based on the character size, switching devices means that the resulting graphs are not identical, despite identical window/device sizes.

This can be rectified by setting the character size of the Z-buffer device with

or doing the reverse for the X-Windows device, but this seems to me to be a pointless and unnecessary device dependence.

I am annoyed enough to post about this because I just spend longer than I should have figuring out why the graphics output from the two devices was not identical.

Ken Bowman