Subject: Re: A whine about default device settings
Posted by Kenneth P. Bowman on Mon, 11 Feb 2008 03:18:26 GMT
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In article <MPG.221901b29e38c3ae9896b2@news.frii.com>,
 David Fanning <news@dfanning.com> wrote:

> Kenneth P. Bowman writes:
>
>> 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).
>
> Yes, this is a LONG standing problem. I think I first ran into this
> problem nearly 20 years ago. :-(
>
> Cheers,
>
> David

I ran into another similar issue later

IDL> help, !d, /str
** Structure !DEVICE, 17 tags, length=84, data length=84:
   NAME   STRING   'X'
   X_PX_CM   FLOAT   40.0000
   Y_PX_CM   FLOAT   40.0000

IDL> help, !d, /str
** Structure !DEVICE, 17 tags, length=84, data length=84:
   NAME   STRING   'Z'
   X_PX_CM   FLOAT   26.0000
   Y_PX_CM   FLOAT   26.0000

The pixels-per-centimeter parameters are read-only and cannot be set by
the user. Why that is the case for a virtual device that has no
physical size is beyond me.

This artificial difference in "resolution" means that you have to adjust
the SCALE factor on MAP_SET to make maps match when switching devices.
(I try to avoid using SCALE, but for some projections it is the best way
to make a map work right.)

Ken