
Subject: Re: the "real" screen size

Posted by [lecacheux.alain](#) on Mon, 25 Oct 2010 13:01:24 GMT

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On 25 oct, 00:02, wlandsman <wlands...@gmail.com> wrote:

> I often like to view images as big as possible on my monitor. So
> I get the screen size using `device,get_screen_size=win_size`, and open a
> window of this size using `WINDOW, XSIZE=, YSIZE=`. I then `CONGRID()`
> my (bigger) image down to this size and display it with TV.
>
> After all these years, I now realize that this method results in
> significant truncation of the image on my Linux (Redhat) box (and
> smaller truncation on my Mac). `Device,get_screen_size` reports a
> screen size of 1600 x 1200 on my Linux box, but when I open a 1200 x
> 1200 window, I am actually only viewing the first 1115 pixels of the
> image in the Y direction, so I am missing more than 7% of the image,
> presumably due to pixels taken up by the window and taskbar margins
>
> There was a thread a while back (<http://tinyurl.com/2bssnfe>) on
> using the `exclude_Taskbar` keyword in the `IDLsysMonitorInfo` object to
> get the "free" screen size. But this method seems more relevant to
> determining the available size for a widget GUI, and in any case, the
> `exclude_Taskbar` keyword is only available for Windows OS.
>
> I can always introduce a fudge factor (i.e. subtract 85 pixels from
> the reported screen size) but does anyone know any IDL or X-window
> settings that might help?
>
> Thanks, --Wayne

In MS-Windows (I do not know in Unix/Linux), IDL window creation looks like to be different in DG and new Graphics.

After `Device,GET_SCREEN_SIZE=sz`, the statement `Window,/FREE,XSIZE=sz[0],YSIZE=sz[1]` creates a somewhat truncated window, overlapped by system taskbar, while `!Null=Window(DIMENSIONS=sz)` creates a well centered, not overlapped window.

In the second case, I guess that it would be possible to understand what IDL is actually doing, by using `Widget_WINDOW` and `Widget_INFO(/GEOMETRY)` or, likely better, by using ITOOLS armada, since new graphics windows should derive from ITools...

Alx.
