Subject: Re: Getting info on the whole screen in IDL
Posted by landsman on Fri, 17 Feb 1995 17:36:00 GMT
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In article <3i2euu$knu@adam.cc.sunysb.edu>, Chris Jacobsen
<jacobsen@xray1.physics.sunysb.edu> writes...

> The IDL parameters !D.X_SIZE and so forth tell you information
> about the active display window (at least as far as I can tell).
>
> I wanted to be able to find about the whole screen so as to
> decide how big to make windows and fonts and so on.
>
> I have written a routine
> IDL> xpixels,xpix,ypix,xmm,ymm
> IDL> print,xpix,ypix,xmm,ymm
>   1024   768   283.000   212.000

The GET_SCREEN_SIZE keyword to the DEVICE command under X windows will give
you the size of the entire screen in pixels.   I think you still have to link
to the C program to get the size in mm.

--Wayne Landsman   landsman@stars.gsfc.nasa.gov

Subject: Re: Getting info on the whole screen in IDL
Posted by landsman on Mon, 20 Feb 1995 02:15:00 GMT
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In article <17FEB199512365904@sorbet.gsfc.nasa.gov>,
landsman@sorbet.gsfc.nasa.gov (Wayne Landsman (301)-286-3625) writes...
> The GET_SCREEN_SIZE keyword to the DEVICE command under X windows will give
> you the size of the entire screen in pixels.   I think you still have to link
> to the C program to get the size in mm.
>

David Fanning of RSI pointed out that the !D.X_PX_CM and !D.Y_PX_CM system
variables can be used to convert the screen size to mm.   Below I give
a simple program XPIXELS to return the screen size.

I note that the !D system variable contains information applicable
to all graphics devices, while the total screen size is a concept that only
makes sense for devices that support windows.   I suppose this is why the
screen size information is not in the !D system variable, but must be
accessed through the DEVICE command.

--Wayne Landsman   landsman@stars.gsfc.nasa.gov

```
pro xpixels,xpix,ypix,xmm,ymm

;Return the screen size in pixels (xpix,ypix) and mm (xmm,ymm)
;Works on devices that support windows ('X','WIN','MacOS')

 device,get_screen_size = scrsz
 xpix = scrsz(0) & ypix = scrsz(1)
 xmm = 10.*xpix/!D.X_PX_CM
 ymm = 10.*ypix/!D.Y_PX_CM

 return
 end
```

Subject: Re: Getting info on the whole screen in IDL
Posted by sjt on Tue, 21 Feb 1995 09:45:09 GMT
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Wayne Landsman (301)-286-3625 (landsman@sorbet.gsfc.nasa.gov) wrote:
: In article <3i2euu$knu@adam.cc.sunysb.edu>, Chris Jacobsen
: <jacobsen@xray1.physics.sunysb.edu> writes...

: >The IDL parameters !D.X_SIZE and so forth tell you information
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: you the size of the entire screen in pixels.   I think you still have to link
: to the C program to get the size in mm.

Not if the screen is properly set up. The GET_SCREEN_SIZE gives the screen
size and the !D.[xy]_px_cm give the pixels/cm. From which it is trivial
to extract the size of the screen in cm.

: --Wayne Landsman   landsman@stars.gsfc.nasa.gov

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 | James Tappin, | School of Physics & Space Research | O__ |
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| sjt@star.sr.bham.ac.uk | University of Birmingham      | -- \/` |
| Ph: 021-414-6462. Fax: 021-414-3722        | |
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