Subject: y_width of xyouts Posted by R.Bauer on Tue, 26 Oct 1999 07:00:00 GMT

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Hi,

I like to know exactly the y_width of a text in normal coordinates. I have written a small routine which unfortunately don't run with all devices set.

Any other ideas are welcome

image=TVRD()

I know already !D.Y_CH_SIZE but its only useful on some windows systems.

```
FUNCTION y_width,text,x_width=width,_extra=e
old_dev=!d.name
IF STRUPCASE(!version.os_family) EQ 'WINDOWS' THEN dev='win' ELSE
dev='x'
SET_PLOT,dev
WINDOW,/free,/pixmap,retain=0
WSET,!D.WINDOW

XYOUTS,0,0.5,text,/NORM,width=width,color=1,charthick=10,ali gnment=alignment,_extra=e
```

SET_PLOT,old_dev
!p.background=255
!p.color=0
dim=SIZE(image,/dim)
idx=WHERE(image EQ MAX(image))/dim[0]
y_width=(FLOAT(MAX(idx))-FLOAT(MIN(idx)))/FLOAT(dim(1))
WDELETE,!D.WINDOW
RETURN,y_width
END

Subject: Re: y_width of xyouts Posted by R.Bauer on Thu, 28 Oct 1999 07:00:00 GMT

1 Osted by N. Dader on Thu, 20 Oct 1999 of .00.00

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"Martin.Schultz@dkrz.de" wrote:

> In article <3815E4EF.93A13CA6@fz-juelich.de>,

```
"R.Bauer" <R.Bauer@fz-juelich.de> writes:
>> Hi,
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>> I like to know exactly the y_width of a text in normal coordinates.
>> I have written a small routine which unfortunately don't run with all
>> devices set.
>>
>> Any other ideas are welcome
>>
>> I know already !D.Y CH SIZE but its only useful on some windows systems.
>>
> Hallo Reimar,
>
    I am not exactly sure why !D.Y_CH_Size shouldn't work on all devices.
>
  Here is a piece of code from my AxLabel routine which may help:
>
      : Get v position for label
>
      ; Subtract one character size
>
      PY = !Y.Window[0]
>
      PYOFF = CONVERT_COORD(1,!D.Y_CH_SIZE*CHARSIZE,/DEVICE,/TO_NORMAL)
>
      PY = PY - 1.05*PYOFF[1]
>
>
  (it calculates the position for a label on the x axis by placing it
  below the axis with a 5% margin)
> Viele Gruesse.
> Martin
Hallo Martin,
hast Du Dich schon gut eingelebt?
I am not meaning that !D.Y_CH_Size don't work more I like to say it's not
exactly.
We found differences between aix and NT IDL.
If you try to get the height of one char or one line this will be quiet good
enough. But what's with
formulars or many lines with increments or exponents.
How did you determine the space between two lines?
Gruss
Reimar
```

```
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   PY = PY - 1.05*PYOFF[1]
(it calculates the position for a label on the x axis by placing it
below the axis with a 5% margin)
Viele Gruesse.
Martin
[ Dr. Martin Schultz Max-Planck-Institut fuer Meteorologie
             Bundesstr. 55, 20146 Hamburg
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                                                [[
             phone: +49 40 41173-308
[[
                                              [[
             fax: +49 40 41173-298
                                             [[
[[ martin.schultz@dkrz.de
                                             [[
```