
Subject: Re: Annoyances...how about this one?
Posted by [davidf](#) on Tue, 08 Sep 1998 07:00:00 GMT
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Stein Vidar Hagfors Haugan (steinhh@ulrik.uio.no) writes:

> Try this:
>
> window
> for i=0,500 do plots,[i,i,i],[300,301,302],/device,psym=3
>
> On my platform {alpha OSF unix 5.1 Apr 13 1998}, this does
> *not* draw all the pixels that should be filled. Instead,
> some pixel columns are left out, making the drawn "line"
> appear as a striped band (with variable stripe pattern). Is
> this the case for other platforms as well?

> Doesn't quite make sense, does it?

No. But all your examples are reproducible on my Windows NT machine. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Annoyances...how about this one?
Posted by [mgs](#) on Wed, 09 Sep 1998 07:00:00 GMT
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In article <6t5ea5\$du0\$1@nnrp1.dejanews.com>, rmlongfield@my-dejanews.com wrote:

> Hi All,
> I put Stein's examples in an idl procedure producing 4 windows
and run it on:
> print,!version { mipseb IRIX unix 5.0 Apr 28 1997}
>
> I get good results for IDL Windows 0,1 and 3 but see the gaps in window 2,
> which is NOT the same window where Stein got his gaps. David Fanning's
> Windows NT gets no gaps? Well, maybe something with Unix then, but
> inconsistent over different platforms. Anybody try it with Linux?

On MacOS, it's related to window size. Only Window 1 has no gaps with a 400x400 window. Changing to a 320x320 window shows gaps only in window 2. Changing to 512x512 shows no gaps.

I changed `stein_test` to allow you to pass in window sizes. I'm on a laptop with an 800x600 screen this morning. There were no gaps in the original display because the window size was 400x300. Of course, I couldn't see anything because it was drawing off the screen. The `yOff` value will plot the lines in the middle of the screen.

```
print, !Version
{ PowerMac MacOS MacOS 5.1 Apr 21 1998}
```

```
==== modified version of stein_test ====
```

```
PRO stein_test, xSize, ySize
  IF (N_Elements(xSize) EQ 0) THEN xSize = 512
  IF (N_Elements(ySize) EQ 0) THEN ySize = 512
```

```
  yOff = Fix(ySize / 2)
;Try this:
```

```
  window,0, XSize=xSize, YSize=ySize
  for i=0,500 do plots,[i,i],$
    [yOff-1, yOff, yOff+1],/device,psym=3
```

```
;On my platform {alpha OSF unix 5.1 Apr 13 1998}, this does
;*not* draw all the pixels that should be filled. Instead,
;some pixel columns are left out, making the drawn "line"
;appear as a striped band (with variable stripe pattern). Is
;this the case for other platforms as well?
```

```
;I assume it's caused by some calculations w/round off error
;to/from normalized coordinates or such.
```

```
;It's quite weird, cause I get correct results for the
;following loop:
```

```
window,1, XSize=xSize, YSize=ySize
  for i=0.0,500,1.0000001 do plots,[i,i],$
    [yOff-1, yOff,yOff+1],/device,psym=3
```

```
;*and* for the following:
```

```
window,2, XSize=xSize, YSize=ySize
  for i=0.0,500,.9999999 do plots,[i,i],$
    [yOff-1, yOff, yOff+1],/device,psym=3
```

```
;But not for this:
```

```
window,3, XSize=xSize, YSize=ySize
```

```
for i=0.0,500,1.0 do plots,[i,i],$  
    [yOff-1, yOff, yOff+1],/device,psym=3
```

;(So it's not simply the *type* of the variable i that's causing this..)

end

--

Mike Schienle
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<http://www.ivsoftware.com>

Subject: Re: Annoyances...how about this one?

Posted by [Martin Schultz](#) on Wed, 09 Sep 1998 07:00:00 GMT

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rmlongfield@my-dejanews.com wrote:

>
> Hi All,
> I put Stein's examples in an idl procedure producing 4 windows and run it on:

Hi all,

here's my version

```
IDL> print,!version  
{ mipseb IRIX unix 5.1.1 Jul 20 1998}
```

I ran stein_test and found dashed lines only in window 2 !

Martin.

[program cut]

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Subject: Re: Annoyances...how about this one?
Posted by [rmlongfield](#) on Wed, 09 Sep 1998 07:00:00 GMT
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Hi All,

I put Stein's examples in an idl procedure producing 4 windows and run it on:
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I get good results for IDL Windows 0,1 and 3 but see the gaps in window 2, which is NOT the same window where Stein got his gaps. David Fanning's Windows NT gets no gaps? Well, maybe something with Unix then, but inconsistent over different platforms. Anybody try it with Linux?

Rose

```
-----program-----  
PRO stein_test  
;Try this:
```

```
    window,0  
    for i=0,500 do plots,[i,i,i],[300,301,302],/device,psym=3
```

```
;On my platform {alpha OSF unix 5.1 Apr 13 1998}, this does  
;*not* draw all the pixels that should be filled. Instead,  
;some pixel columns are left out, making the drawn "line"  
;appear as a striped band (with variable stripe pattern). Is  
;this the case for other platforms as well?
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;I assume it's caused by some calculations w/round off error  
;to/from normalized coordinates or such.
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```
;It's quite weird, cause I get correct results for the  
;following loop:
```

```
window,1  
    for i=0.0,500,1.0000001 do plots,[i,i,i],[300,301,302],/device,psym=3
```

```
;*and* for the following:
```

```
window,2  
    for i=0.0,500,.9999999 do plots,[i,i,i],[300,301,302],/device,psym=3
```

```
;But not for this:
```

```
window,3  
    for i=0.0,500,1.0 do plots,[i,i,i],[300,301,302],/device,psym=3
```

```
;(So it's not simply the *type* of the variable i that's causing this..)
```

```
end
```

-----== Posted via Deja News, The Leader in Internet Discussion ==-----

