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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:  
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?

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?

;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

    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

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