
Subject: Re: cgwindow and cgplot, bug?

Posted by on Fri, 27 Jul 2012 12:29:05 GMT

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Den fredagen den 27:e juli 2012 kl. 14:13:32 UTC+2 skrev David Fanning:

> Mats Löfdahl writes:

>

> > I just noticed a possible bug in cgwindow/cgplot. Here is a minimal example.

> >

> > The following lines make a plot with two data points represented as squares:

> >

> > cgwindow, /free

> > cgplot,/add,[1,2],[2,1], psym=symcat(6),xrange=[0,5],yrange=[0,5]

> >

> > If I add the following line:

> >

> > cgplot,/add,/over,[1,2],[3,2], psym=symcat(9)

> >

> > I get two more points as circles as expected - AND the two points from the first cgplot call are ALSO turned into circles! I've updated the coyote library (five minutes ago) but the problem persists.

> >

> > In a cgdisplay window and without the /add keyword, the plot comes out as expected.

>

> Yes, this is because keyword values are hard-coded when

> they are added to the cgWindow. When you say PSYM=SymCat(6),

> whatever SymCat(6) evaluates to is stored as the PSYM

> keyword. In this case, (in almost *every* case!) that

> value is 8. That happens to be the same value as

> SymCat(9).

>

> But, the solution is simple. Don't use SYMCAT here!!!

> If you don't use it, then the symbol value is NOT

> hard-coded, but is evaluated at the time the

> cgPlot command is executed.

>

> This problem is a result of writing the commands

> incorrectly. The proper way to write these commands

> is like this:

>

> cgWindow

> cgPlot, /add,[1,2],[2,1], psym=6, xrange=[0,5], yrange=[0,5]

> cgplot, /add, /over, [1,2],[3,2], psym=9

Ah, a little more attention is required when fixing up some older code.

Thanks and sorry about the noise!

