Subject: Re: cgplot clobbers user symbols
Posted by David Fanning on Wed, 18 May 2011 21:23:05 GMT
View Forum Message <> Reply to Message

Jeremy Bailin writes:

> I just discovered a behaviour of cgPlot that disturbs me somewhat. If I define a user symbol using USERSYM and then use it in cgPlot using PSYM=8, it works fine. But I follow it up with PSYM=something_else, my user symbol gets clobbered and the next call with PSYM=8 plots it with something_else.
>
> For example:
>
> usersym, [-1,1], [-1,1] ; diagonal line
> ; this gives a diagonal line, as expected:
> cgplot, findgen(10), findgen(10), psym=8
> ; this gives plusses, as expected:
> cgplot, /overplot, findgen(10), findgen(10) + 0.5, psym=1
> ; I expected diagonal lines, but I get plusses:
> cgplot, /overplot, findgen(10), findgen(10) - 0.5, psym=8
>
>
> Is this "expected behaviour"?

Well, probably. :-)

The problem is, I am using USERSYM myself to create plot symbols by calling SYMCAT. I suppose I don't *have* to use USERSYM for symbols 1 and 4-6, I could just return those numbers, but I am using it for some reason. (I probably didn't like the symbols IDL was creating, I would guess.)

In any case, I could restore this functionality for symbols 1-7, but not for symbols 11-46, since I have to use SYMCAT to produce those symbols.

The "best" solution, probably, would just be to extend SYMCAT with the symbols you want to use. We can put an unlimited number of symbols in there. Tell me what you want, and I'll add them. Or, you can add them, and send the file to me. :-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: cgplot clobbers user symbols
Posted by Jeremy Bailin on Thu, 19 May 2011 04:46:13 GMT
View Forum Message <> Reply to Message

Yeah, it doesn't disturb me that it gets clobbered when you use non-built-in symbol numbers, but I was surprised that it would disappear for built-in ones.

In this case, you probably wouldn't want to - the symbol in question is actually

usersym, [0,1], [0,1]

i.e. a diagonal tick to the upper-right from the plot position. It only makes sense to use because I'm putting it on top of lines that are roughly diagonal the other way, so it nicely marks positions along the line, but I can't imagine anyone using it in any other context.

-Jeremy.
