Subject: Re: Easy way to make hard copies at full printer resolution Posted by davidf on Wed, 02 Sep 1998 07:00:00 GMT

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Kristian Kjaer (kristian.kjaer@risoe.dk) writes:

- > One thing that makes IDL somewhat inconvenient for _interactive_ data
- > display
- > and reduction is the lack of a command (equivalent to dare I say it -
- > alt(File)...Print... in Windows programs) to produce a hard copy of the
- > current plot with the resolution offered by the printer.

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- > Ideally I'd like to sit and type into the IDL command prompt, using
- > native IDL
- > commands and my own (wrapper, mainly) routines and, when a useful plot
- > resulted on the screen, make a hard copy of it without any extra
- > trouble.

>

> Does anyone have some ideas or some useful code?

At the Object-Oriented IDL Programming course I taught in Albuquerque a couple of weeks ago we wrote, as an exercise, a forward and backward connected linked list object. We then used that list object in a "smart" image object so that the image could "remember" (in any arbitrary order) what processing steps had been executed on it. Among the numerous benefits of this smart image was that fact that we had a multiple "undo" feature, since we could simply delete the last item on its "memory" list and tell the processed image to "recreate" itself. Very, very nice.

I've since done some more work on the linked list object and added the capability to sort, order, and interactively edit the linked list objects. What I have been envisioning is exactly the functionality you seem to be asking for: a way to store, edit, and re-play a series of commands.

What is missing (and what could be added in about 10 minutes of work) is a command "player". This would simply be an object that executed and stored the commands for later playback. The PRINT method would look something like this:

PRO Player::Print
Set_Plot, 'PRINTER'
Device, XSize=5, YSize=4, /Inches
self.history->Replay
Device, /Close_Document

END

The commands to be executed would have to be entered like this:

```
player->cmd, 'Plot, findgen(11), Title=First Plot' player->cmd, 'y = Sin(findgen(11))+ 0.5' player->cmd, 'Oplot, y'
```

The CMD method would look something like this:

```
PRO Player::CMD, command WSet, self.wid ok = Execute(command) IF NOT ok THEN RETURN self.history->Add, command END
```

There would, of course, be a few more complications than this (you might, for example, have to have a way to let the player know that you erased the plot), but nothing that couldn't be sorted out in about half a day's work, I imagine.

Cheers,

David

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Phone: 970-221-0438, Toll-Free Book Orders: 1-888-461-0155 Coyote's Guide to IDL Programming: http://www.dfanning.com/