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Subject: iTool Panel UI - getting info from launch routine

Posted by [sdettrick](#) on Mon, 15 Dec 2003 22:22:03 GMT

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Hi,

I'm trying to build an iTool with a Panel UI, as in the iTool developer's guide, chapter 13, p 252+. Part of my PUI (!) is a CW\_BGROUPO(), i.e. a group of buttons (or if you like a WIDGET\_LIST(), same question will apply). My problem is I want to make the list of buttons (or the list in the widget\_list()) an argument to my iTool LAUNCH routine, e.g. I would like to write:

```
IDL> mytool,x,buttonlist=["tom","dick","harry"]
```

and have the PUI show a group of buttons with labels "tom", "dick", "harry".

So the question is, how do I "piggyback" the buttonlist array from the launch routine into the PUI routine, without using a common block?

Since the PUI is created in the Launch routine (mytool.pro) using the ITREGISTER command,

```
ITREGISTER, "My Panel", "myPanel", TYPE="EXAMPLE",/UI_PANEL
```

there is no obvious way to make the buttonlist(=["tom","dick","harry"]) a part of a state structure, as one would normally do with the UVALUE of a top level base.

I have tried to build an object out of BUTTONLIST;

```
listobj = obj_new('myListObject', buttonlist )
```

which I have then turned into an IDLitData object;

```
list_data = obj_new( 'IDLitData', listobj )
```

which I have then added to the parameter set;

```
oParmSet -> Add, Plot_List_data, PARAMETER_NAME="BUTTON LIST"
```

which I then hoped to access via oTool in the Panel procedure:

```
PRO myPanel, wPanel, oUI
```

```
oTool = oUI -> GetTool()
```

```
oWin = oTool -> GetCurrentWindow()
```

```
oView = oWin -> GetCurrentView()
```

```
oCont = oView -> GetByIdentifier( 'Visualization Layer/Data
```

```
Space Root/Data Space/Contour' )
```

```
oParams = oCont -> GetByIdentifier('Parameters')
```

```
oData = oParams -> GetByName( "BUTTON LIST" )
```

```
ok = oData -> GetData( Plot_List )
```

However, while the iTool is being created, the above hierarchy apparently has not yet been created (though this is the correct hierarchy, after creation of the iTool). Thus, inside the myPanel.pro, I can't figure out how to get hold of my list\_data which

I added to oParmset.

Can anybody give a hint?

Is there some other more direct way to get the info into myPanel.pro?

Any help would be greatly appreciated,

Thanks,

Sean Dettrick

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