Subject: programming with itools
Posted by Anne Martel on Fri, 26 Jun 2009 16:20:44 GMT
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I've finally decided to try to figure out how to use iTools and with
the help of the examples on michael galloys page, searching through
code in the idl distribution and a lot of trial and error I have
managed to setup a viewer with 2 windows, one showing a volume and the
other showing a slice through the volume.

I am stuck on a couple of things (well more than a couple but this is
my immediate problem)and was hoping that the solutions are obvious to
people who have played with itools more than I have:

a) why does the line
oimplane -> setproperty,   orientation = 'Z'
not have any impact on the orientation - it always sets to the default
x orientation?

b) is there any way of setting the 2nd viewport to iimage, ie no axes
or rotations

The procedure I have so far is:

```
ivolume,/test,view_grid=[2,1]
id = itGetCurrent(tool=otool)
vol_id = otool->findIdentifiers('*data_space/volume', $
                    /visualizations)
ovol = otool->getByIdentifier(vol_id)

;this bit sets up an image plane
ops_id = otool->findIdentifiers('*imageplane*', /operations)
oimplane = otool->getByIdentifier(ops_id)
;this next line doesn't do anything!
oimplane -> setproperty,   orientation = 'Z'
result = otool->doAction(ops_id)

;now grap the data for the image plane
oSelVis = oTool->GetSelectedItems(count=nSelVis)
 oData = oSelVis->GetParameter('IMAGEPIXELS')
strToolID = IDLitSys_CreateTool("Image Tool",/view_next,initial_data =
oData, visualization_type='IDLIMAGE')
  oNewTool = oTool->GetByIdentifier(strToolID)
  oCreateVis = oNewTool->GetService("CREATE_VISUALIZATION")
   oParmSet = OBJ_NEW('IDLitParameterSet', $
          DESCRIPTION='Image Plane', NAME='Image Plane',$
          TYPE='Image', ICON='image')
 ; hook up the plane data
```

```
  oParmSet->Add, oData, PARAMETER_NAME='IMAGEPIXELS', /
PRESERVE_LOCATION
oCommandSet = oCreateVis->CreateVisualization(oParmSet, "IMAGE")
; amazingly the plane image updates when the volume plane is moved!
```

any suggestions gratefully received,
Anne