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Subject: Re: IVolume/isosurface

Posted by [Michael Galloy](#) on Fri, 07 Jul 2006 17:23:34 GMT

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Kenneth P. Bowman wrote:

```
> In article <12ar2fms945fc42@corp.supernews.com>,
> "Karl Schultz" <k_remove_schultz@ittvis.com> wrote:
>
>>> Can an IVolume display more than one isosurface? If not, why not?
>>>
>> You need to re-select the volume to add another Isosurface.
>
```

Karl's suggestion will fix this programmatic example too. You just need to insert a

```
vol_obj->select
```

after creating an isosurface (and before creating the next isosurface). See the code below.

Mike

--

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```
>
> IVOLUME, var, /NO_SAVEPROMPT, OVERPLOT = itool_id
>
> vol_id = itool_obj -> FindIdentifiers('*DATA SPACE/VOLUME*', /VISUALIZATIONS)
;Get volume viz object identifier
> vol_obj = itool_obj -> GetByIdentifier(vol_id) ;Get volume viz object
reference
> vol_obj -> SetProperty, RENDER_EXTENTS = 0 ;Turn off walls
> vol_obj -> SetProperty, HIDE = 1 ;Hide volume (for
exporting images)
>
> isosurface_op_id = itool_obj -> FindIdentifiers('*ISOSURFACE*', /OPERATIONS) ;Get
isosurface operator identifier
> isosurface_op_obj = itool_obj -> GetByIdentifier(isosurface_op_id) ;Get
isosurface operator object reference
> isosurface_op_obj -> SetProperty, SHOW_EXECUTION_UI = 0 ;Turn off
isosurface operator user interface
> FOR i = 0, N_ELEMENTS(isovalues)-1 DO BEGIN
> isosurface_op_obj -> SetProperty, _ISOVALUE0 = isovalues[i] ;Set
isosurface value to pv_value
> rc = itool_obj -> DoAction(isosurface_op_id)
;Make isosurface
```

vol\_obj->select ; need to select volume again here

```
> ENDFOR
>
> isosurface_id = itool_obj -> FindIdentifiers('*DATA SPACE/ISOSURFACE*',
/VISUALIZATIONS) ;Get isosurface object identifier(s)
> PRINT, isosurface_id
> FOR i = 0, N_ELEMENTS(isovalues)-1 DO BEGIN
>   isosurface_obj = itool_obj -> GetByIdentifier(isosurface_id[i])           ;Get isosurface
object reference
>   isosurface_obj -> SetProperty, SOURCE_COLOR = 1, $                       ;Set color
source to "user"
>   FILL_COLOR = isocolor, $                                               ;Set color
>   TRANSPARENCY = 20                                                       ;Set transparency
>   itool_obj -> RefreshCurrentWindow                                       ;Refresh window
>   iTPropertyReport, itool_obj, isosurface_id[i]                         ;Print list of isosurface
properties
> ENDFOR
```

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