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Subject: Re: /MODAL makes widgets disappear  
Posted by [D. Mattes](#) on Fri, 12 May 2000 07:00:00 GMT  
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to david fanning and anyone else interested....

here is the code that builds the widget hierarchy, and the widget event handler. it's not that much code, so i included all of it. maybe it has something to do with the implicit x-sizing of the cw\_field. but why would that depend only on whether it was spawned as a modal widget???

thanks for enjoying red herring!

david m.

-----begin code -----

```
pro sp_define_common
  common sp_widget_vars,spMinSettings,done,cancel
end

pro sp_BASE_1_event, Event

  common sp_widget_vars

  wWidget = Event.top

  case Event.id of

    Widget_Info(wWidget, FIND_BY_UNAME='WID_BUTTON_1'): begin
      done=1
      WIDGET_CONTROL,$
      Widget_Info(wWidget, FIND_BY_UNAME='WID_NXI'),$
      GET_VALUE=temp
      spMinSettings.nxi=temp
      WIDGET_CONTROL,$
      Widget_Info(wWidget, FIND_BY_UNAME='WID_NYI'),$
      GET_VALUE=temp
      spMinSettings.nyi=temp
      WIDGET_CONTROL,$
      Widget_Info(wWidget, FIND_BY_UNAME='WID_NZI'),$
      GET_VALUE=temp
      spMinSettings.nzi=temp
      WIDGET_CONTROL,$
      Widget_Info(wWidget, FIND_BY_UNAME='WID_CX_MIN'),$
      GET_VALUE=temp
      spMinSettings.cj[0,0]=temp
      WIDGET_CONTROL,$
```

```

Widget_Info(wWidget, FIND_BY_UNAME='WID_CX_MAX'),$
GET_VALUE=temp
spMinSettings.ci[1,0]=temp
WIDGET_CONTROL,$
Widget_Info(wWidget, FIND_BY_UNAME='WID_CY_MIN'),$
GET_VALUE=temp
spMinSettings.ci[0,1]=temp
WIDGET_CONTROL,$
Widget_Info(wWidget, FIND_BY_UNAME='WID_CY_MAX'),$
GET_VALUE=temp
spMinSettings.ci[1,1]=temp
WIDGET_CONTROL,$
Widget_Info(wWidget, FIND_BY_UNAME='WID_CZ_MIN'),$
GET_VALUE=temp
spMinSettings.ci[0,2]=temp
WIDGET_CONTROL,$
Widget_Info(wWidget, FIND_BY_UNAME='WID_CZ_MAX'),$
GET_VALUE=temp
spMinSettings.ci[1,2]=temp

    WIDGET_CONTROL, event.top, /DESTROY
end
Widget_Info(wWidget, FIND_BY_UNAME='WID_BUTTON_0'): begin
cancel=1
    WIDGET_CONTROL, event.top, /DESTROY
end
else:
endcase

end

pro sp_BASE_1, spMinSettingsExt, doneExt, cancelExt, GROUP_LEADER=wGroup,
_EXTRA=_VWBExtra_

common sp_widget_vars

done=0
cancel=0

if n_elements(wGroup) GT 0l then $
sp_BASE_1 = Widget_Base( GROUP_LEADER=wGroup, $
    UNAME='sp_BASE_1'$
    ,XOFFSET=5 ,YOFFSET=5 ,SCR_XSIZE=318 $
    ,SCR_YSIZE=409 $
    ,TITLE='Deformation Minimization Parameters' $
    ,SPACE=3,XPAD=3 $
    ,YPAD=3,/MODAL) $
else $

```

```

sp_BASE_1 = Widget_Base( GROUP_LEADER=wGroup, $
  UNAME='sp_BASE_1'$
  ,XOFFSET=5 ,YOFFSET=5 ,SCR_XSIZE=318 ,SCR_YSIZE=409 $
  ,TITLE='Deformation Minimization Parameters' $
  ,SPACE=3,XPAD=3 $
  ,YPAD=3)

WID_LABEL_0 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_0' $
  ,XOFFSET=49 ,YOFFSET=29 ,SCR_XSIZE=221 ,SCR_YSIZE=18 $
  ,/ALIGN_LEFT ,VALUE='Enter the deformation minimization'+ $
  ' constraints')

WID_LABEL_1 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_1' $
  ,XOFFSET=83 ,YOFFSET=70 ,SCR_XSIZE=170 ,SCR_YSIZE=19 $
  ,/ALIGN_LEFT ,VALUE='Number of deformation parameters')

WID_LABEL_4 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_4' $
  ,XOFFSET=13 ,YOFFSET=100 ,SCR_XSIZE=44 ,SCR_YSIZE=19 $
  ,/ALIGN_RIGHT ,VALUE='nxi')

WID_LABEL_5 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_5' $
  ,XOFFSET=13 ,YOFFSET=130 ,SCR_XSIZE=44 ,SCR_YSIZE=19 $
  ,/ALIGN_RIGHT ,VALUE='nyi')

WID_LABEL_6 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_6' $
  ,XOFFSET=13 ,YOFFSET=160 ,SCR_XSIZE=44 ,SCR_YSIZE=19 $
  ,/ALIGN_RIGHT ,VALUE='nzi')

WID_LABEL_7 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_7' $
  ,XOFFSET=13 ,YOFFSET=293 ,SCR_XSIZE=44 ,SCR_YSIZE=19 $
  ,/ALIGN_RIGHT ,VALUE='cz')

WID_LABEL_8 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_8' $
  ,XOFFSET=13 ,YOFFSET=263 ,SCR_XSIZE=44 ,SCR_YSIZE=19 $
  ,/ALIGN_RIGHT ,VALUE='cy')

WID_LABEL_9 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_9' $
  ,XOFFSET=13 ,YOFFSET=233 ,SCR_XSIZE=44 ,SCR_YSIZE=19 $
  ,/ALIGN_RIGHT ,VALUE='cx')

```

```
WID_LABEL_10 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_10' $
, XOFFSET=195 , YOFFSET=208 , SCR_XSIZE=30 , SCR_YSIZE=18 $
, /ALIGN_LEFT , VALUE='Max')
```

```
WID_LABEL_11 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_11' $
, XOFFSET=98 , YOFFSET=208 , SCR_XSIZE=30 , SCR_YSIZE=18 $
, /ALIGN_LEFT , VALUE='Min')
```

```
WID_LABEL_12 = Widget_Label(sp_BASE_1, UNAME='WID_LABEL_12' $
, XOFFSET=100 , YOFFSET=190 , SCR_XSIZE=151 , SCR_YSIZE=19 $
, /ALIGN_LEFT , VALUE='Deformation Constraints')
```

```
WID_BUTTON_0 = Widget_Button(sp_BASE_1, UNAME='WID_BUTTON_0' $
, XOFFSET=65 , YOFFSET=330 , SCR_XSIZE=90 , SCR_YSIZE=25 $
, /ALIGN_CENTER , VALUE='Cancel')
```

```
WID_BUTTON_1 = Widget_Button(sp_BASE_1, UNAME='WID_BUTTON_1' $
, XOFFSET=170 , YOFFSET=330 , SCR_XSIZE=90 , SCR_YSIZE=25 $
, /ALIGN_CENTER , VALUE='Done')
```

```
WID_BASE_NXI = Widget_Base(sp_BASE_1, $
UNAME='WID_BASE_NXI' , XOFFSET=78 , YOFFSET=96 $
, SCR_XSIZE=170 , SCR_YSIZE=25 $
, TITLE='IDL' , SPACE=3 , XPAD=3 , YPAD=3)
```

```
WID_NXI=CW_FIELD(WID_BASE_NXI,$
UNAME='WID_NXI',$
/LONG,$
TITLE='', $
/RETURN_EVENTS,$
XSIZE=8,$
VALUE=spMinSettingsExt.nxi)
```

```
WID_BASE_NYI = Widget_Base(sp_BASE_1, $
UNAME='WID_BASE_NYI' , XOFFSET=78 , YOFFSET=126 $
, SCR_XSIZE=170 , SCR_YSIZE=25 $
, TITLE='IDL' , SPACE=3 , XPAD=3 , YPAD=3)
```

```
WID_NYI=CW_FIELD(WID_BASE_NYI,$
UNAME='WID_NYI',$
/LONG,$
TITLE='', $
```

```
/RETURN_EVENTS,$
XSIZE=8,$
VALUE=spMinSettingsExt.nyi)
```

```
WID_BASE_NZI = Widget_Base(sp_BASE_1, UNAME='WID_BASE_NZI' $
, XOFFSET=78 , YOFFSET=156 , SCR_XSIZE=170 , SCR_YSIZE=25 $
, TITLE='IDL' , SPACE=3 , XPAD=3 $
, YPAD=3)
```

```
WID_NZI=CW_FIELD(WID_BASE_NZI,$
UNAME='WID_NZI',$
/LONG,$
TITLE='',$
/RETURN_EVENTS,$
XSIZE=8,$
VALUE=spMinSettingsExt.nzi)
```

```
WID_BASE_CX_MIN = Widget_Base(sp_BASE_1, UNAME='WID_BASE_CX_MIN' $
, XOFFSET=78 , YOFFSET=230 , SCR_XSIZE=90 , SCR_YSIZE=25 $
, TITLE='IDL' , SPACE=3 , XPAD=3 , YPAD=3)
```

```
WID_CX_MIN=CW_FIELD(WID_BASE_CX_MIN,$
UNAME='WID_CX_MIN',$
/FLOATING,$
TITLE='',$
/RETURN_EVENTS,$
XSIZE=8,$
VALUE=spMinSettingsExt.ci[0,0])
```

```
WID_BASE_CX_MAX = Widget_Base(sp_BASE_1, UNAME='WID_BASE_CX_MAX' $
, XOFFSET=178 , YOFFSET=230 , SCR_XSIZE=170 , SCR_YSIZE=25 $
, EVENT_FUNC='set_CX_max' , TITLE='IDL' , SPACE=3 , XPAD=3 , YPAD=3)
```

```
WID_CX_MAX=CW_FIELD(WID_BASE_CX_MAX,$
UNAME='WID_CX_MAX',$
/FLOATING,$
TITLE='',$
/RETURN_EVENTS,$
XSIZE=8,$
VALUE=spMinSettingsExt.ci[1,0])
```

```
WID_BASE_CY_MIN = Widget_Base(sp_BASE_1, UNAME='WID_BASE_CY_MIN' $
, XOFFSET=78 , YOFFSET=260 , SCR_XSIZE=90 , SCR_YSIZE=25 $
, TITLE='IDL' , SPACE=3 , XPAD=3 , YPAD=3)
```

```
WID_CY_MIN=CW_FIELD(WID_BASE_CY_MIN,$
  UNAME='WID_CY_MIN',$
  /FLOATING,$
  TITLE='',$
  /RETURN_EVENTS,$
  XSIZE=8,$
  VALUE=spMinSettingsExt.ci[0,1])
```

```
WID_BASE_CY_MAX = Widget_Base(sp_BASE_1, UNAME='WID_BASE_CY_MAX' $
  ,XOFFSET=178 ,YOFFSET=260 ,SCR_XSIZE=170 ,SCR_YSIZE=25 $
  ,TITLE='IDL' ,SPACE=3 ,XPAD=3 ,YPAD=3)
```

```
WID_CY_MAX=CW_FIELD(WID_BASE_CY_MAX,$
  UNAME='WID_CY_MAX',$
  /FLOATING,$
  TITLE='',$
  /RETURN_EVENTS,$
  XSIZE=8,$
  VALUE=spMinSettingsExt.ci[1,1])
```

```
WID_BASE_CZ_MIN = Widget_Base(sp_BASE_1, UNAME='WID_BASE_CZ_MIN' $
  ,XOFFSET=78 ,YOFFSET=290 ,SCR_XSIZE=90 ,SCR_YSIZE=25 $
  ,TITLE='IDL' ,SPACE=3 ,XPAD=3 ,YPAD=3)
```

```
WID_CZ_MIN=CW_FIELD(WID_BASE_CZ_MIN,$
  UNAME='WID_CZ_MIN',$
  /FLOATING,$
  TITLE='',$
  /RETURN_EVENTS,$
  XSIZE=8,$
  VALUE=spMinSettingsExt.ci[0,2])
```

```
WID_BASE_CZ_MAX = Widget_Base(sp_BASE_1, UNAME='WID_BASE_CZ_MAX' $
  ,XOFFSET=178 ,YOFFSET=290 ,SCR_XSIZE=170 ,SCR_YSIZE=25 $
  ,TITLE='IDL' ,SPACE=3 ,XPAD=3 ,YPAD=3)
```

```
WID_CZ_MAX=CW_FIELD(WID_BASE_CZ_MAX,$
  UNAME='WID_CZ_MAX',$
  /FLOATING,$
  TITLE='',$
  /RETURN_EVENTS,$
  XSIZE=8,$
  VALUE=spMinSettingsExt.ci[1,2])
```

```

Widget_Control, /REALIZE, sp_BASE_1

spMinSettings=spMinSettingsExt
cancel=0
done=0

; Manage the widget tree until dismissed
XManager, 'sp_BASE_1', sp_BASE_1

doneExt=done
cancelExt=cancel

if done EQ 1 then begin
  spMinSettingsExt.nxi=spMinSettings.nxi
  spMinSettingsExt.nyi=spMinSettings.nyi
  spMinSettingsExt.nzi=spMinSettings.nzi
  spMinSettingsExt.ci=spMinSettings.ci
endif

end
;
; Empty stub procedure used for autoloading.
;
pro sp_settings, spMinSettings, done, cancel, GROUP_LEADER=wGroup,
_EXTRA=_VWBExtra_
  sp_BASE_1, spMinSettings, done, cancel, GROUP_LEADER=wGroup,
_EXTRA=_VWBExtra_
end

-----end code-----

```

On Thu, 11 May 2000, David Fanning wrote:

```

> D. Mattes (dmattes@u.washington.edu) writes:
>
>> IDL gurus! i have a strange one for you, and i hope you can help. i
>> created a widget that can runs as a modal widget if a group is
>> specified. this widget has some CW_FIELD widgets contained in it, no big
>> deal, right? well, i get some strange behaviors...
>>
>> on WINDOWS platform:
>> no strange effects, nice.
>>
>> on UNIX platform:
>> if the widget is managed in modal mode (by setting the /MODAL keyword for
>> the top level base), none of the CW_FIELD widgets appear!!! yet, if the
>> widget is not run as a modal widget, the CW_FIELD widgets *ARE* there!

```

>>  
>> any insights into this problem? specifically, a way around it would be to  
>> not use the /MODAL keyword for the top level base, but i need the modal  
>> effect. is there another way to achieve this, say with xmanager?  
>  
> Henk, pay attention. \*This\* is what is known as a  
> "red herring". :-)  
>  
> Cheers,  
>  
> David  
>  
> P.S. Just to amuse me, could you try substituting my  
> COYOTE\_FIELD compound widget for your CW\_FIELD compound  
> widget. It should be a drop-in replacement, pretty much.  
> But we are \*really\* going to have to see some code, because  
> my modal widgets are filled with CW\_FIELDS (or their  
> equivalents) and I've never heard of this. :-)  
>  
> [http://www.dfanning.com/programs/coyote\\_field.pro](http://www.dfanning.com/programs/coyote_field.pro)  
>  
> --  
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> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
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