
Subject: Re: /MODAL makes widgets disappear
Posted by [davidf](#) on Thu, 11 May 2000 07:00:00 GMT
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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...
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> 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

--

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Subject: Re: /MODAL makes widgets disappear
Posted by [davidf](#) on Fri, 12 May 2000 07:00:00 GMT
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D. Mattes (dmattes@u.washington.edu) writes:

> 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???

My, God! This looks like code the IDL GUI-Builder would spit out. :-(

Yes, I suspect all that specific sizing that is going on to get things looking right on the PC is not working correctly on a UNIX machine. I don't know what the MODAL keyword has to do with it, but I'm not surprised about having problems. The GUI-Builder is inherently ill-suited to producing platform-independent code, IMHO.

My suggestion is to take 15 minutes and code this up with column and row bases (and get rid of the Common blocks while you are at it) and you will be fine.

Cheers,

David

--

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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.ci[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 0 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:
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```

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> --
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