
Subject: Long CW_PDMENUs
Posted by [bk](#) on Mon, 17 Oct 1994 23:18:06 GMT
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Hello,

I am somewhat of a novice at IDL Widget Programming.

I am trying to make a Date button with a pulldown menu heirarchy that looks like the following:

```
DATE
  1994 -> Jan -> 1
             2
             .
             31
  Feb-> 1
           .
           28
1995 ->
1996 ->
```

etc. With all the Months followd by all the days of the month.

The following works, eventually...

However, it takes several minutes for the interface to popup. It also takes a long time for the event proc for an item at the TLB event procedure(ie the quit from the Menu Bar) to take effect. Before I added the two date buttons the quit was instantaneous. Afterwards, it takes about 20 seconds.

```
;-----
FUNCTION Build_date_menu
COMMON date_menu_desc

xx = { CW_PDMENU_S, flags:0, name:''}
date_menu_desc = replicate(xx, ( (3 * 12 * 31) + 100) )

days = [ $
'1','2','3','4','5','6','7','8','9','10', $
'11','12','13','14','15','16','17','18','19','20', $
```

```

'21','22','23','24','25','26','27','28','29','30', $
'31'$
]
months = [ $
'Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun', $
'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec' $
]

```

```

date_menu_desc(0) = { CW_PDMENU_S, 1, 'Date'}

```

```

year = 1994
i = 1

```

```

WHILE (year LT 1997) DO BEGIN
date_menu_desc(i) = { CW_PDMENU_S, 1, STRING(year)}
i = i + 1
FOR m = 0,11,1 DO BEGIN
IF m EQ 11 THEN BEGIN $
date_menu_desc(i) = { CW_PDMENU_S, 3, months(m) }
ENDIF ELSE date_menu_desc(i) = { CW_PDMENU_S, 1, months(m) }
i = i + 1

```

```

FOR d = 0,30,1 DO BEGIN
IF m EQ 1 THEN BEGIN $ ; February ??
IF ( d ) EQ 27 THEN BEGIN $
date_menu_desc(i) = { CW_PDMENU_S, 2, days(d) }
d = 30
ENDIF ELSE date_menu_desc(i) = { CW_PDMENU_S, 0, days(d) }

```

```

ENDIF ELSE BEGIN
IF m EQ 3 OR m EQ 5 OR m EQ 8 OR M EQ 10 AND d EQ 29 THEN BEGIN $
date_menu_desc(i) = { CW_PDMENU_S, 2, days(d) }
d = 30
ENDIF ELSE BEGIN
IF d EQ 30 THEN BEGIN $
date_menu_desc(i) = { CW_PDMENU_S, 2, days(d) }
ENDIF ELSE date_menu_desc(i) = { CW_PDMENU_S, 0, days(d) }
ENDELSE

```

```

ENDELSE

```

```

i = i + 1

```

```

ENDFOR ; end day loop
ENDFOR ; end month loop
year = year + 1

```

```
ENDWHILE
```

```
return,i
```

```
END
```

```
;-----  
FUNCTION Build_date_button, parent,xoff,yoff,menu_size
```

```
COMMON common_gui, fo_instr_label, fo_start_time, fo_end_time,date_menu_desc
```

```
menu = CW_PDMENU( parent, date_menu_desc(0:menu_size), /RETURN_FULL_NAME,$  
FONT = '-b&h-lucidatypewriter-bold-r-normal-sans-0-120-75-75-m- 0-iso8859-1',$  
XOFFSET = yoff,$  
YOFFSET = xoff,$  
UVALUE = 'DATE',$  
DELIMITER = '&')
```

```
return,menu
```

```
END
```

```
;-----
```

The main program looks something like:

```
build menu bar  
build base for pulldown buttons
```

```
menu_size = Build_date_menu()
```

```
button1=Build_date_button( base,row2_offset,column2_offset,menu_size)  
button2=Build_date_button( base,row2_offset,column2_offset,menu_size)
```

```
????????????????????????????????????????????????????????
```

Is there a faster better way to do this???

I really do want the GUI part of this to be a Pullright/Pulldown menu.

I know explicitly handling XOFFSETS and YOFFSETS are not suggested ways of handling placement, however, the rest of GUI for this application is quite large and screen real estate is important.

Letting the positions default by using ROW or COLUMNS on the base for the buttons is not acceptable in this case.

Any suggestions will be most welcome.

Thanks

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