
Subject: Re: Widget layout in BASE to get table in IDL 4.0
Posted by [Josh Stillerman](#) on Fri, 06 Oct 1995 07:00:00 GMT
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nmw@ion.le.ac.uk (Nigel Wade) wrote:

> I have an application which used to work in IDL 3, but no longer produces
> sensible output in IDL 4.0.

>

> What the routine is supposed to do is produce a table of widgets with the
> rows and columns nicely aligned. Using IDL 3 I could do this by creating
> a BASE widget and using the COLUMN attribute to tell it how many columns
> to use. Then I could fill the base with the widgets and the same number
> of widgets would be put into each column and each widget would be the same
> height, pretty much like a Motif RowColumn widget.

>

> With IDL 4 this is no longer the case. The widgets are all packed into
> the BASE widget and it doesn't even put the same number in each column.
> The result is a free-form complete mess. I have tried creating additional
> BASE, /COLUMN=1 widgets of the main BASE and then putting the table widgets
> in these. This does allow me to put the correct number of widgets in each
> column, but the widgets in each column are of different heights so they
> don't align across. I cannot use the XSIZE and YSIZE attributes because
> they are ignored for ROW/COLUMN BASE widgets.

>

> BTW, this is not regarded as a bug, but as a new *feature*. I have been
> told that this is the way it is now *meant* to work.

>

> Does anyone have any idea how it might be possible to create a table of
> widgets of different types which are aligned to a grid? I don't want to
> have to use a Bulletin Board type BASE and specify the XSIZE, YSIZE,
> XOFFSET, and YOFFSET of every child because a) it's very tedious and
> requires alteration every time a new row or column is added, b) it only
> works on one screen with one font - a different screen or font requires
> all the values to be changed.

>

> --

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>

I made a compound widget (cw_base) which operates sort of like the bases in 3.x
To use it you need to do 2 things:

- 1) replace the widget_base with cw_base
- 2) disable updates when you are creating the base and its children.

Here is the code

[illegible]

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 $;$

•

•

- ; Compound widgets.

```
; widget = CW_BASE([parent][,row = row] [,column=column] [any widget base keywords])
```

; PARENT - The ID of the parent widget. if not present this is a top level base

```
; row = row - number of rows this base should have
```

•

; The ID of the created widget is returned.

: None.

■

•

; 8/16/95 JAS original version

```
; fixup a row base by makeing sure they all have
```

pro fix rows, w

```
c = widget info(w, /child)
```

```
while c ne 0 do begin
```

```
geo = widget.info(c, /geometry)
```

```
if (geo.scr xsize qt width) then width = geo.scr xsize
```

```
c = widget_info(c, /sibling)
```

endwhile

```
c = widget info(w, /child)
```

```

while c ne 0 do begin
  widget_control, c, scr_xsize = width
  c = widget_info(c, /sibling)
endwhile
end

;*****
;
; fixup a column base by makeing sure they all have
; the same height. set it to the maximum height
;*****
pro fix_columns, w
  height = 0
  c = widget_info(w, /child)
  while c ne 0 do begin
    geo = widget_info(c, /geometry)
    if (geo.scr_ysize gt height) then height = geo.scr_ysize
    c = widget_info(c, /sibling)
  endwhile
  c = widget_info(w, /child)
  while c ne 0 do begin
    widget_control, c, scr_ysize = height
    c = widget_info(c, /sibling)
  endwhile
end
;*****
;
; create a base with one of the above procedures as its
; notify_realize
;*****
function cw_base, parent, row=row, column=column, _extra=e
  psz = size(parent)
  rsz = size(row)
  if rsz(1) ne 0 then begin
    if (psz(1) ne 0) then $
      base = widget_base(parent, row=row, notify_realize='fix_rows', _extra=e) $
    else $
      base = widget_base(row=row, notify_realize='fix_rows', _extra=e)
    endif else begin
      csz = size(column)
      if csz(1) ne 0 then begin
        if (psz(1) ne 0) then $
          base = widget_base(parent, column=column, notify_realize='fix_columns', _extra=e) $
        else $
          base = widget_base( column=column, notify_realize='fix_columns', _extra=e)
        endif else begin
          if (psz(1) ne 0) then $
            base = widget_base(parent, _extra=e) $
          else $
            base = widget_base(_extra=e)
          endif
        endif
      endif
    endif
  endif
end

```

```

    endelse
  endelse
  return, base
end

```

[illegible]