Subject: WaveWidget Userdata area ---> is there a memory leak?
Posted by Juergen Paff on Sat, 09 Sep 1995 07:00:00 GMT
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Hi there,
I am having a problem with the userdata area of WaveWidgets. If this is updated/overwritten by some new values, it does not seem to free the now unused 'old' memory area. Thus a continuous refresh of userdata areas (I need that to make my widgets reentrant) ultimately eats up all memory, leading to exeeded process quotas (VMS) or swapping/freezing the mashine (Unix).
Most things I know about Motif programming is from designing widgets with Wave. Thus I do not know whether Wave or the MWM is responsible for this 'leak'. I tried to find the correspondig structure definitions in the Motif Programmers Reference/Guide: didn't succeed.
If anybody could explain me this annoying feature, could point me to some appropriate documentation, or has hints how to avoid this problem (common blocks don't work for me), I'd certainly be very grateful.
Thanks a lot in advance ..... Juergen

Here's an example; it was tested under VMS with WaveAdv 5.0
(similar code got rid of all free mem on a SGI, also Wave 5).

```
********** <snip> **********
;;;;;;;;; callback that allocates memory ;;;;;;;;;;;;;;;;;;;
pro bt_cb, wid, data

; retrieve array that is stored in userdata-area of widget:
userdata_array=WtGet(wid, /userdata)
; show memory usage
info, /mem

if n_elements(userdata_array) eq 1 then begin
; First call to bt_cb: userdata_array is not yet initialized
      status=WtSet(wid, userdata=findgen(500000))
endif else begin
; If there was data in the userdata area, just write it back
      status=WtSet(wid, userdata=userdata_array)
      end
end

;;;;;;;;;;;;;;;;;;; main routine ;;;;;;;;;;;;;;;;;;;;;;;;;;;
pro eatmem

; Create a ne top level widget
main=WwInit('eatmem', 'my_lib', layout, /form)
; Create a button
but=WwButtonBox(layout, 'Press_me_to_eat_up_mem', 'bt_cb')
```

```
; Display the widget
status=WtSet(main, /realize)

; Start Event loop
WwLoop

end
********************* <snip> *********************************
```


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