

Struct Lag MSG
\$
HWND hwnd;
UINT umsgtype;
WPARAM wParam;
LPARAM diParamg
Time Stamp
Mouse Co-ordinates. (if applicable)
J /
A C
-After Update Window() function, the application window
is visible to the end user.
- the end user interacts with the window.
Possible Interactions.
1) Hover the mouse over the client area.
2) Left click on the client area.
3) Right click on the client avea.
4) Grab verticle/horizontal resizing border
OR the corner of window.
5) Release resizing border/corner.
c) Use scroll in upward/downward sense
while the window is on the foreground!

- 7) KB interaction: Press/Release key on key combinations while the window is active
- Every such interaction of end user with application is trapped by an o.s. as a H/W event.
- As a part of event processing an o.s. does the following.
 - 1) Detect an application whose window is interacted with.
 - 2) Detect a handle of a window (An application may have number of windows and therefore it is important to detect a handle of a window)
 - 3) Detect an event type!

 Anything / everything that the end user

 can do with app. window is already

 anticipated by the window o.s.

 therefore, O.S. is always able to convent

 EVERY interaction of end user with

 the window in an appropriate event

type.

HWND hwnd = hanale of window on which even occurred.

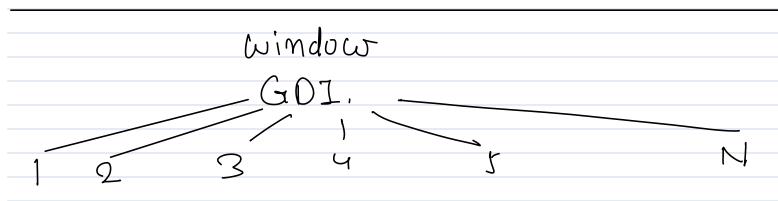
UINT UMSg = Number of Event devi

WPARAM = unsigned long long int.

LPARAM = long long int.

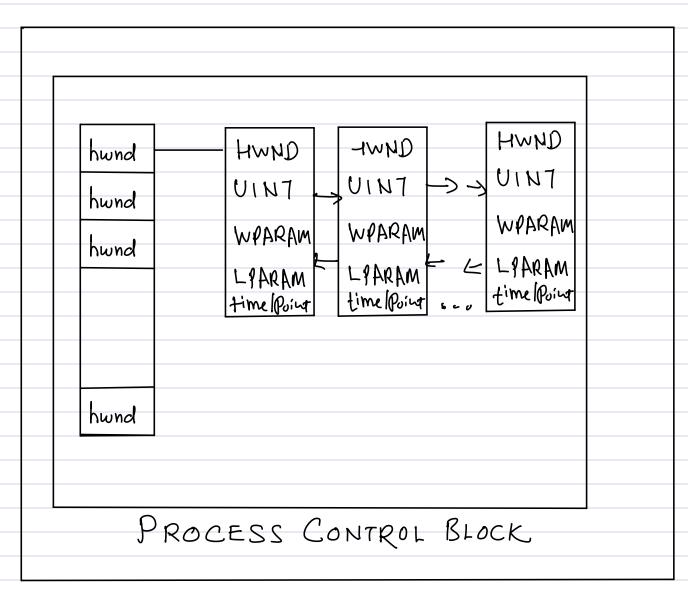
Depending on the event type, a data regarding on event is collected.

Window Resize & Window new width window new height.



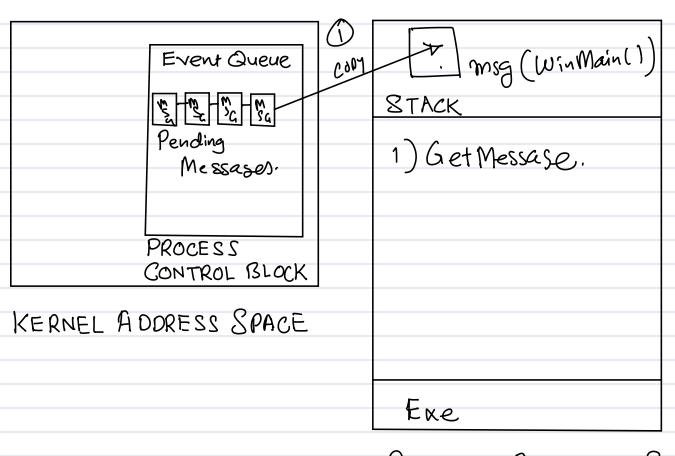
WM_CREAT # define Wm_CREAT 1 WM_PAINT WM_DESTROY WM_QUIT

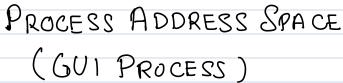
WM-KEYPRESSED WM-LBUTTUNDOWN WM-RBUTTONDOWN 16 byle

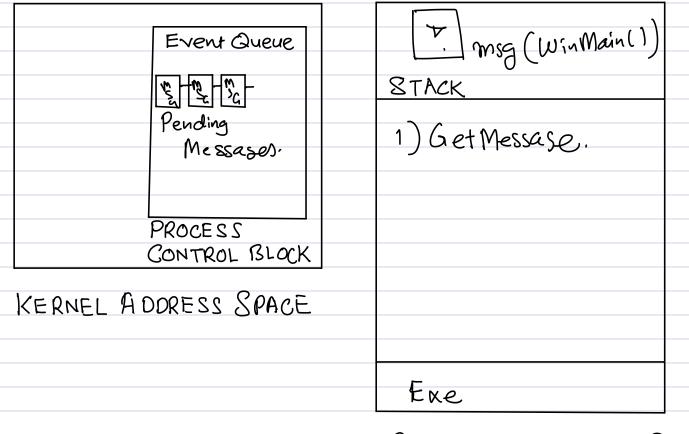


KERNEL ADDRESS SPACE

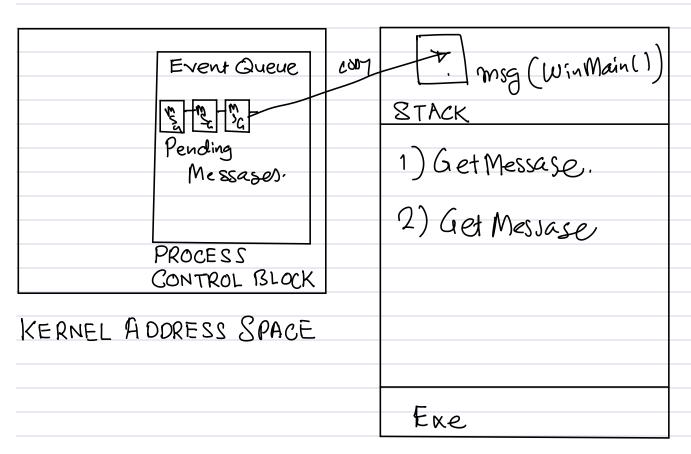
GetMessage (&msg);



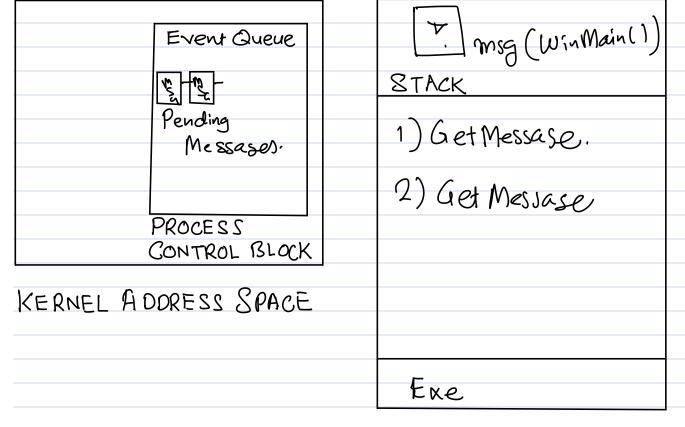




PROCESS ADDRESS SPACE (GUI PROCESS)



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PROCESS ADDRESS SPACE

(OO) 1 KOCESS)

while (GetMessage (Lmg, - - 1).

- 1) GetMessagel)

 if the every queue is empty

 then block until it becomes non-empty.

 (at least one pending event)
- 2) if the even queue is not empty.,

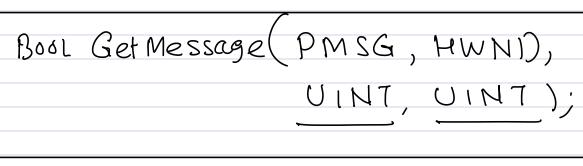
 take the first event on the event

 queue, copy paste its contents

 into MSG Structure instance provided

 by programmer.
- S) GetMessagel) removes the copy of Ms4 in event quehe.

Get Message (Limsg, NULL, 0,0)



Get Message (&msg, MULL) 0,0)

Messase id's range.

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15 to 35

0-5A

) 18D

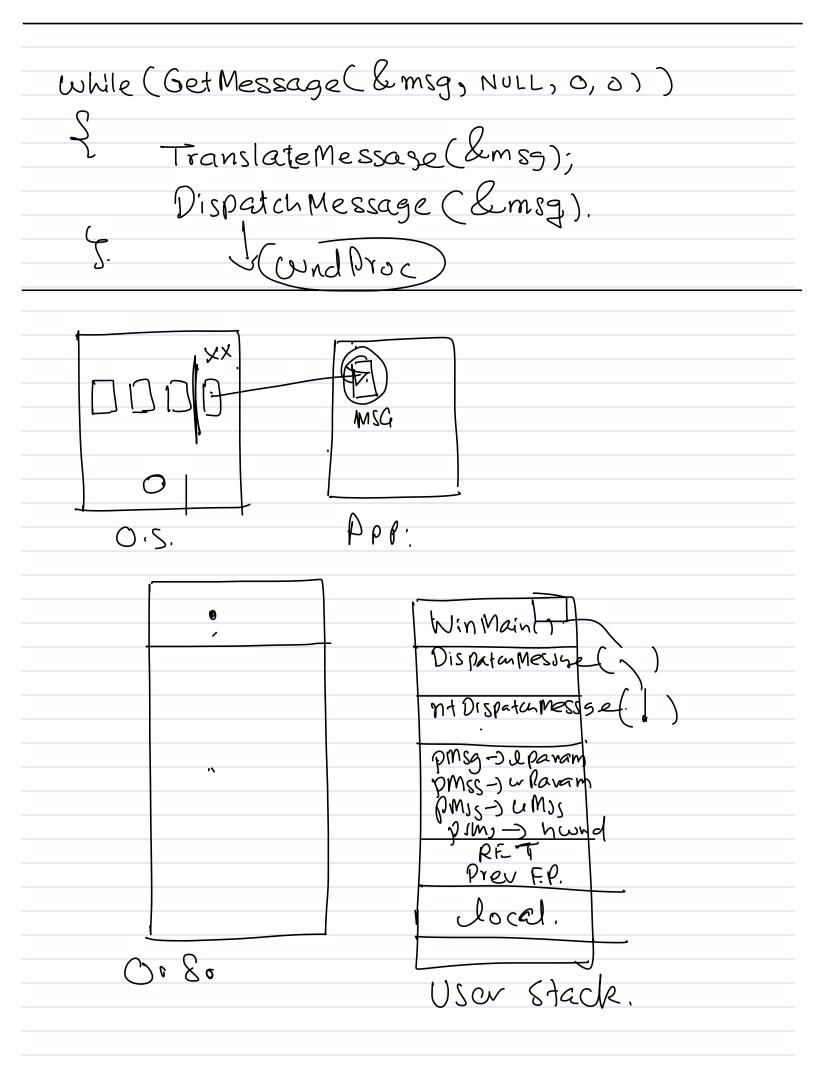
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PMsq.	
Dispatch Message (Struct fagMSUX) (PMSG pMsg)	Σ
Msg -> hwnd	
PMS9 -> UMSg	
pMsg-) w Pavam pMsg-) & Pavam	
Dispatch Messase (& msg)	
Wnd-Defnwnd Proc (pMsg-) hund,	
pMsg-) um sg,	
PMsg-j wlavam,	
PMSS= lPavan	

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main WndProc () FILM Wndlerc J Mainen fu) 12() 911 1 921)