
Subject: Re: Using Pen with U++

Posted by [Tom1](#) on Mon, 29 Mar 2021 20:02:21 GMT

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Hi Mirek,

See the switching Ctrlsw/hwnds for WM_POINTER and WM_MOUSEMOVE messages while on top of menu:

```
[+ 0 ms] WM_MOUSEMOVE N3Upp7MenuBarE : 0x6a82880 (hwnd 0xd3009a)
[+ 0 ms] Ctrl::DoMouse() [141, 302]
[+ 0 ms] MEvent0 [138, 19]
[+ 0 ms] mouseCtrl != this
[+ 0 ms] HasMouse() = false
[+ 0 ms] HasFocus() = true
[+ 0 ms] HasMouse() = true
[+ 0 ms] HasFocus() = false
[+ 0 ms] HasMouse() = false
[+ 0 ms] HasFocus() = true
[+ 0 ms] HasMouse() = true
[+ 0 ms] MEvent0 [138, 19]
[+ 15 ms] WM_POINTERUPDATE 5UWord : 0x6b88070 (hwnd 0x7c02b4)
[+ 0 ms] Ctrl::DoMouse() [141, 343]
[+ 0 ms] MEvent0 [141, 197]
[+ 0 ms] mouseCtrl != this
[+ 0 ms] HasFocus() = false
[+ 0 ms] HasMouse() = false
[+ 0 ms] HasMouse() = true
[+ 0 ms] HasMouse() = false
[+ 0 ms] HasMouse() = true
[+ 0 ms] WM_POINTERUPDATE 5UWord : 0x6b88070 (hwnd 0x7c02b4)
[+ 0 ms] Ctrl::DoMouse() [142, 343]
[+ 0 ms] MEvent0 [142, 197]
[+ 0 ms] MEvent0 [142, 197]
[+ 16 ms] MEvent0 [142, 197]
[+ 0 ms] WM_MOUSEMOVE N3Upp7MenuBarE : 0x6a82880 (hwnd 0xd3009a)
[+ 0 ms] Ctrl::DoMouse() [142, 302]
[+ 0 ms] MEvent0 [139, 19]
[+ 0 ms] mouseCtrl != this
[+ 0 ms] HasMouse() = false
[+ 0 ms] HasFocus() = true
```

Although not shown here, the screen coordinates come in right for both events, but the translation differs in DoMouse() because the events end up in different Ctrlsw/hwnds. Therefore, also local coordinates mismatch. As you can see, WM_POINTERUPDATE lands in main window, whereas WM_MOUSEMOVE goes to drop down menu just as it should.

Hope this helps...

Best regards,

Tom

EDIT: Plain hovering on an open drop down menu makes both WM_POINTERUPDATE and WM_MOUSEMOVE land in the drop down menu:

```
[+ 0 ms] WM_POINTERUPDATE N3Upp7MenuBarE : 0x6a82880 (hwnd 0xb10064)
[+ 0 ms] Ctrl::DoMouse() [124, 302]
[+ 0 ms] MEvent0 [121, 19]
[+ 0 ms] MEvent0 [121, 19]
[+ 0 ms] MEvent0 [121, 19]
[+ 0 ms] WM_MOUSEMOVE N3Upp7MenuBarE : 0x6a82880 (hwnd 0xb10064)
[+ 0 ms] Ctrl::DoMouse() [124, 302]
[+ 0 ms] MEvent0 [121, 19]
[+ 0 ms] MEvent0 [121, 19]
[+ 16 ms] MEvent0 [121, 19]
[+ 0 ms] MEvent0 [121, 19]
[+ 0 ms] WM_POINTERUPDATE N3Upp7MenuBarE : 0x6a82880 (hwnd 0xb10064)
[+ 0 ms] Ctrl::DoMouse() [124, 302]
[+ 0 ms] MEvent0 [121, 19]
[+ 0 ms] MEvent0 [121, 19]
[+ 0 ms] WM_POINTERUPDATE N3Upp7MenuBarE : 0x6a82880 (hwnd 0xb10064)
[+ 0 ms] Ctrl::DoMouse() [123, 302]
[+ 0 ms] MEvent0 [120, 19]
[+ 0 ms] MEvent0 [120, 19]
[+ 0 ms] MEvent0 [120, 19]
[+ 0 ms] WM_MOUSEMOVE N3Upp7MenuBarE : 0x6a82880 (hwnd 0xb10064)
[+ 0 ms] Ctrl::DoMouse() [123, 302]
[+ 0 ms] MEvent0 [120, 19]
[+ 0 ms] MEvent0 [120, 19]
[+ 16 ms] MEvent0 [120, 19]
[+ 0 ms] MEvent0 [120, 19]
[+ 0 ms] WM_POINTERUPDATE N3Upp7MenuBarE : 0x6a82880 (hwnd 0xb10064)
[+ 0 ms] Ctrl::DoMouse() [123, 301]
```

Drag is the difference...
