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Subject: Re: K\_CTRL\_SEMICOLON and K\_CTRL\_PERIOD keys share the same constant value on Win32

Posted by [Oblivion](#) on Mon, 14 Dec 2020 19:47:20 GMT

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Hello Mirek,

There seems to be another problem with function key handling, specifically on X11:

In X11Proc.cpp, Key release the "keysym" variable (which is unsigned long) is either uninitialized or can return values > 64K. This messes the upper word of K\_ keys where the keyflags reside and basically renders the modified function keys ([SHIFT]CTRL/ALT+FN) unusable on X11.

For example, CTRL + F5:

K\_CTRL\_F5|K\_KEYUP = 0x13ffc2  
actual key = 0xfffffc2

This seems to be a quick work-around, but unfortunately, I have little time now to investigate its possible side-effects (I believe, we don't use the upper word of keysym at this point):

CtrlCore/X11Proc.cpp:270

```
keysym &= 0xFFFF; <---- ADDED
if(keysym >= '0' && keysym <= '9' && (chr == 0 || GetCtrl() || GetAlt())) {
    DispatchKey(KEYtoK(keysym - '0' + K_0)|up, count);
    return;
}
if(chr >= 1 && chr < 32) {
    DispatchKey(KEYtoK(chr - 1 + K_CTRL_A)|up, count);
    return;
}
if(keysym >= 0xff80 && keysym <= 0xffb9 && chr) {
    DispatchKey(KEYtoK(chr)|up, count);
    return;
}
if(keysym >= 0xff00 && chr < 128 ||
    (GetCtrl() || GetAlt()) && keysym >= 0x20 && keysym < 0x7f) {
    if(keysym >= 'a' && keysym <= 'z')
        keysym = keysym - 'a' + 'A';
    DispatchKey(KEYtoK(keysym|K_DELTA)|up, count);
    return;
}
```

Best regards,  
Oblivion

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