
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 21:48:28 GMT

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Below code seems to allow numpad, editpad, cursor keys with modifiers on X11:

```
static struct { KeySym keysym; dword key; } tab[] = {
    { XK_ISO_Left_Tab, K_TAB|K_SHIFT },
    { XK_BackSpace,    K_BACKSPACE },
    { XK_Tab,          K_TAB        },
    { XK_Return,       K_ENTER       },
    { XK_KP_Enter,     K_ENTER       },
    { XK_Escape,       K_ESCAPE      },
    { XK_space,        K_SPACE       },
    { XK_Pause,        K_BREAK       },
    { XK_Scroll_Lock,  K_SCROLL      },
    { XK_Home,         K_HOME        },
    { XK_End,          K_END         },
    { XK_Left,         K_LEFT        },
    { XK_Up,           K_UP          },
    { XK_Right,        K_RIGHT       },
    { XK_Down,         K_DOWN        },
    { XK_Prior,        K_PRIOR       },
    { XK_Next,         K_NEXT        },
    { XK_Page_Up,      K_PAGEUP      },
    { XK_Page_Down,    K_PAGEDOWN    },
    { XK_Insert,       K_INSERT      },
    { XK_KP_Space,     K_SPACE       },
    { XK_KP_Tab,       K_TAB         },
    { XK_KP_Enter,     K_ENTER       },
    { XK_KP_F1,        K_F1          },
    { XK_KP_F2,        K_F2          },
    { XK_KP_F3,        K_F3          },
    { XK_KP_F4,        K_F4          },
    { XK_KP_Home,      K_HOME        },
    { XK_KP_Left,      K_LEFT        },
    { XK_KP_Up,        K_UP          },
    { XK_KP_Right,     K_RIGHT       },
    { XK_KP_Down,      K_DOWN        },
    { XK_KP_Page_Up,   K_PAGEUP      },
    { XK_KP_Page_Down, K_PAGEDOWN    },
    { XK_KP_End,       K_END         },
    { XK_KP_Begin,     K_HOME        },
    { XK_KP_Insert,    K_INSERT      },
    { XK_KP_Delete,    K_DELETE      },
    { XK_KP_Multiply,  K_MULTIPLY    },
```

```

{ XK_KP_Add,    K_ADD    },
{ XK_KP_Separator, K_SEPARATOR },
{ XK_KP_Subtract, K_SUBTRACT },
{ XK_KP_Decimal, K_DECIMAL },
{ XK_KP_Divide, K_DIVIDE },
};
for(int i = 0; i < __countof(tab); i++)
if(tab[i].keysym == keysym) {
    DispatchKey(KEYtoK(tab[i].key)|up, count);
    return;
}
if(GetShift() && chr == 0) {
    static dword k[] = { 41, 33, 64, 35, 36, 37, 94, 38, 42, 40 };
    for(int i = 0; i < 10; i++)
        if(keysym == k[i]) {
            DispatchKey(KEYtoK(i + K_0)|up, count);
            return;
        }
}
#ifdef PLATFORM_OSX11
if(GetCtrl() || GetAlt()) { // fix Ctrl+Shift+1 etc...
    keysym = decode((int)event->xkey.keycode, 0xa, '1', 0xb, '2', 0xc, '3', 0xd, '4',
        0xe, '5', 0xf, '6', 0x10, '7', 0x11, '8', 0x12, '9', 0x13, '0',
        keysym);
}
#endif
// DLOG("keysym: " << keysym << " " << (char)keysym);
keysym &= 0xFFFF;
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;
}
}

```

```
if((chr == 32 || chr == 9 || chr == 13) && !pressed)
    DispatchKey(chr|K_KEYUP, count);
if(chr && pressed) {
    DispatchKey(chr, count);
    for(int ii = 1; ii < wtext.GetLength(); ii++)
        DispatchKey(wtext[ii], count);
}
}
break;
```

Best regards,
Oblivion
