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How to emulate a numpad key?



By trentanel

January 29, 2014 in How To

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Hello,

trentanel

I would like to record on my remote the keys from a numpad (1,2,3,4,5,6,7,8,9).

Posted January 29, This is easy, thanks to Flirc .. but ... 2014

This is to emulate a mouse on my PC and the key emulated must be regarded not as a number, but as a key from the number.

More: i dont know the difference between the two, a number as "4" does not work. The key "4" of the numpad works fine.

If someone knows how to do ...

Regards



Quote





2014

Hi.

below is the solution for your problem:

Posted February 6, You will need to use the command line. You should know how to navigate through your file system and call programs using the command line.

---Theory:---

For the OS, the number keys are different keys than the main field number-keys. The operating system maps the same symbol (the number) to both keys.

To get your mouse emulation, you need to map the low level keypad values, instead of the main key field keys. The Flirc GUI can map the main field keys only, but not the numpad keys.

---Obtaining the needed values:---

To program the numberd keys, you need the raw USB-HID values as decimal numbers, and program them with the command line tool and the tool's record_api function.

You can get the raw values from here:

http://www.freebsddiary.org/APC/usb_hid_usages

I've quoted the relevant part below:

For reference, this is the main keyboard that the GUI programs into Flirc:



```
0x26 Keyboard 9 and (
0x27 Keyboard 0 and )
```

using a Hex to decimal number converter (like this online one: http://www.statman.info/conversions/hexadecimal.html), you can convert those to decimal numbers. This is range 30-39 decimal.

But you will need those:



the Keypad numbers 1-0 have decimal values of 89 to 98. You can calculate the other values (+, -, / keys, etc), if needed, by simply counting down from 89.

--- Programming Flirc:---

First, unlearn all the keys you want to use for the mouse emulation (with the GUI or command line tool).

(For linux, the command line tool we will use is called **flirc_util**. For windows it *might* be called **flirc_util.exe**. I don't know, as I don't use windows, look in the program's install folder)

Now you use the command line tool to program the Keypad keys, by using the program's record_api function:

Quote from the program's internal help:



Send the raw HID value down to flirc to be linked with button recorded usage:

record_api 'arg1 arg2' arg1 is key-modifier arg2 is HID key

example:

flirc record_api 136 4 '136' represents right cmd + left cmd '4' represents 'a' in HID

Key modifiers are defined in the IEEE HID Spec as follows:

LEFT CONTROL 1
LEFT SHIFT 2
LEFT ALT 4
LEFT CMD|WIN 8
RIGHT CONTROL 16
RIGHT SHIFT 32
RIGHT ALT 64
RIGHT CMD|WIN 128

To record Control + Shift, logically or 1 & 2 to make 3

You don't want any modifiers, so the first argument is 0 and the command is: **flirc_util record_api 0 <arg>** or **flirc_util.exe record_api 0 <arg>, where <arg> is a number between 89 and 98.**

eg.: *flirc_util record_api 0 89* to program the keypad 1, *flirc_util record_api 0 90* to program the keypad 2, etc...

so you start the program with the proper arguments for the key you want to program, then the program waits until you press a key on your remote, programs it and exits.

you redo that for every key you want to map, entering the correct value as a start parameter.

BTW: note for windows users: you cannot simply click a command-line program, that won't work. You have to start the command line from the menu, navigate to the exe's folder (use **cd** command) and then type the program name and its parameters.

<Tab> can be used for auto-completion, <Arrow up> and <Arrow down> to recall the last entered commands (so you don't need to retype the command 10 times, but can use <Arrow up> and edit the last command.)

I hope that helps

Quote

2 weeks later...





Thank you very much for your remarks. This is what I wanted. I did and it works perfectly on my raspberryPi that runs Archlinux.

trentanel

Posted February 15, Thank you again. 2014



Quote

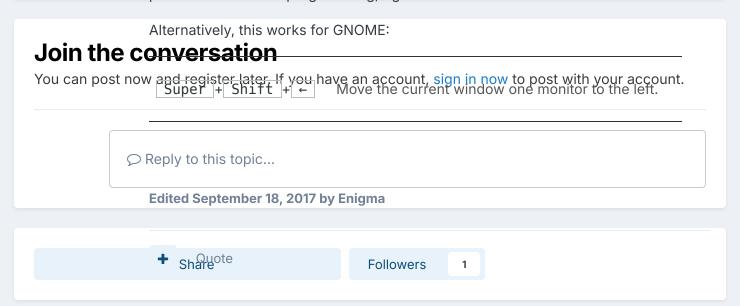
3 years later...



Enigma Posted September 18, 2017

Thanks for this - this is what I needed as well.

But surely, a profile named 'Full Keyboard' ought to actually have the numpad keys presented for easier programming, right?



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