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How to configure Joystick (Gamepad) on Debian, Ubuntu, Mint GNU / Linux easily

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"All work and no fun makes Jack a dull boy"

If you own a PC joystick and you're a gamer who just migrated to GNU / Linux and you enter the wonderful world of Linux gaming (haha what wonderful world its nightmare :), perhaps you will want an easy way to make your Joystick work on GNU / Linux.

In this article I'll try my best to explain how you can relavitely easy make your *Linux joystick* (joy stick:), bring you the happiness of playing old arcades in an old school joystick way.

1. Install necessery packages for joystick under Linux



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 $game linux:-\# apt-get \ install \ --yes \ joystick \ jstest-gtk \ joy2key \ gjoypad \ xserver-xorg-input-joystick \ \setminus \\ xserver-xorg-input-joystick-dev \ kodi-peripherals$

2. Test wherher joystick is properly detected by kernel

gamelinux:~# cat /dev/input/js0



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If above cat command returns a bunch of weird signs in your terminal, that means the joystick was successfully detected and should be working.

3. Load Joystick necessery Linux modules if your Gamepad is not properly detected

Note that I assume you're super user most of below commands are preferrably to be run as root:

If you're Gamepad is not detected, you'll have to manually create /dev/input/js0

gamelinux:~# cd /dev/input gamelinux;~# MAKEDEV js0

Further on you'll need to perhaps load at least the following 3 modules which gives support for a number of JoySticks / Gamepad devices

gamelinux:~# modprobe joydev gamelinux:~# modprobe ns558 gamelinux:~# modprobe sidewinder

gamelinux:~# modprobe gameport

Just in case if you're planning to play old Arcade games I recommend you load also following bunch of modules:

gamelinux:-# modprobe snd-seq gamelinux:-# modprobe 3:c59x gamelinux:-# modprobe snd-emu10k1 gamelinux:-# modprobe snd-pcm-oss gamelinux:-# modprobe snd-mixer-oss

gamelinux:~# modprobe snd-seq-oss

If you get an error message and don't suceed to calibrate your gamepad, you need to look under to know the modules that fit your Joystick model.



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For a MS Sidewinder gamepad

gamelinux:-# modprobe joydev gamelinux:-# modprobe ns558 gamelinux:-# modprobe sidewinder gamelinux:-# modprobe analog

This one work only for analog pad, like joysticks

For a Logitech WingMan digital gamepad

gamelinux:~# modprobe joydev gamelinux:~# modprobe ns558 gamelinux:~# modprobe adi

Specific driver for Logitech gamepads

For a Logitech WingMan gamepad (analog)

gamelinux:-# modprobe joydev gamelinux:-# modprobe ns558 gamelinux:-# modprobe analog ## Module for analog gamepads gamelinux:-# modprobe pcigame ## Module for PCI card (??) gamelinux:-# modprobe adi

Module for Logitech pads

For a MS SideWinder ForceFeedBack Pro

gamelinux:-# modprobe joydev gamelinux:-# modprobe ns558 gamelinux:-# modprobe analog gamelinux:-# modprobe idewinder gamelinux:-# modprobe iforce ## Force Feedback driver

gamelinux:~# modprobe evdev

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For a G	uillemot dual	analog gamepac	l (gameport,	non-USB)	

gamelinux:-# modprobe joydev gamelinux:-# modprobe ns558 gamelinux:-# modprobe guillemot gamelinux:-# modprobe analog ## to check gamelinux:-# modprobe iforce

If auto-detect of joystick doesn't work (hopefully not your case)

gamelinux:~# modprobe usbhid gamelinux:~# modprobe joydev

- Enable Joystick for KDE Users

Luckily though historically the *kcontrol* package was required but nowadays, KDE users could usually calibrate joystick via *KDE K Control Centrer*

To make joystick configuration permanent on Linux you need to add the modules that worked with your Joystick device to /etc/modules,

for eample I own

JOYSTICK GENIUS MAXFIRE G-08XU

And my



jscal /dev/input/js0 jstest /dev/input/js0 **? Walking in Light with Christ - Faith, Computing, Diary** Free Software GNU Linux, FreeBSD, Unix, Windows, Mac OS - Hacks, Goodies, Tips and Tricks and The True Meaning of life

http://www.pc-freak.net/blog /etc/modules file looks like so: gamelinux:~# cat /etc/modules #/etc/modules: kernel modules to load at boot time. # HThis file contains the names of kernel modules that should be loaded # at boot time, one per line. Lines beginning with "#" are ignored. snd-seq 3c59x snd-emu10k1 snd-pcm-oss snd-mixer-oss snd-seq-oss joydev In case of some problems with SoundCard conflicting joystick or the other way around you might also want to add into /etc/modprobe.d/options something similar to gamelinux:~# vim /etc/modprobe.d/options gamelinux:~# options snd_ens1371 joystick_port=1 ${\bf 4.\ Calibrate\ your\ joystick\ either\ using\ jstest\ /\ jscal\ commands\ or\ GNOME's\ jstest-gtk}$ To calibrate joystick in text mode use below commands

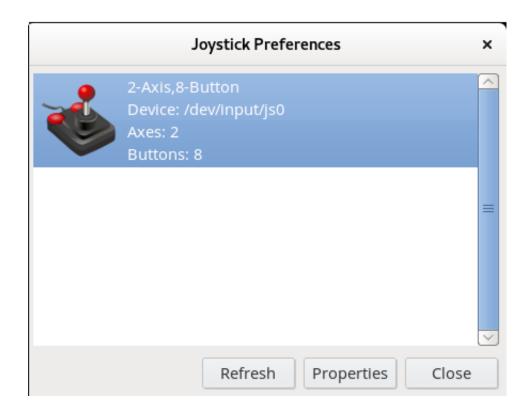


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For the lazy ones you can calibrate your joystick via GNOME's graphical tool jstest-gtk

istest-etk



This article is just a basic explanation on how to make your joystick work, for thoroughful advanced explanation on JoySticks and Gamepads I recommend <u>ArchLinux Wiki explanation on how to configure Gamepads</u>

5. Create missing Symlinks from /dev/input/js0 to /dev/js0 $\,$

I've personally experienced a problem with *Xmame / Xmess* (Multimedia Arcade Emulator) and other old arcade Virtual Machine Emulators that are supposed to recognize the joystick, but



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because it is common that the joystick is trying to be invoked via /dev/js0 /dev/js1 (depending on its model), but somehow this links are missing, thus I had to manually create the links with ln command, like so:

- For /dev/input/js0 to link /dev/js0		
cd /dev; ln -sf /dev/input/js0;		
- For /dev/input/js1 to link /dev/js1		
cd /dev; in -sf /dev/input/js1;		