

How to run TR4W contesting software under Linux with SunSDR2 DX by Expert Electronics

The famous Windows contesting software TR4W (see <https://tr4w.net/>) works in Linux. Only your radio and keyer should be connected to a port which is symlinked into `/.wine/dosdevices`. This can be done in this way:

```
ln -s /dev/ttyUSB0 ~/.wine/dosdevices/com1 << Winkeyer USB  
connects com1 of TR4W
```

```
ln -s /dev/ttyUSB1 ~/.wine/dosdevices/com2 << your radio connects to  
com2 of TR4W
```

Of course, any SunSDR2 is not supported by TR4W itself. Fortunately ExpertSDR2 software has the Kenwood TS480 protocol emulation (Options → CAT) which can be evaluated.

First, you need `tty0tty` - linux null modem emulator. It can be downloaded here:

<https://github.com/freemed/tty0tty>

The installation is described in detail also here.

To make `tty0tty` persistent across boot, edit the file `/etc/modules` (Debian) or `/etc/modules.conf` or `/etc/modules-load.d/modules.conf` (Ubuntu) – simply and add the following line:

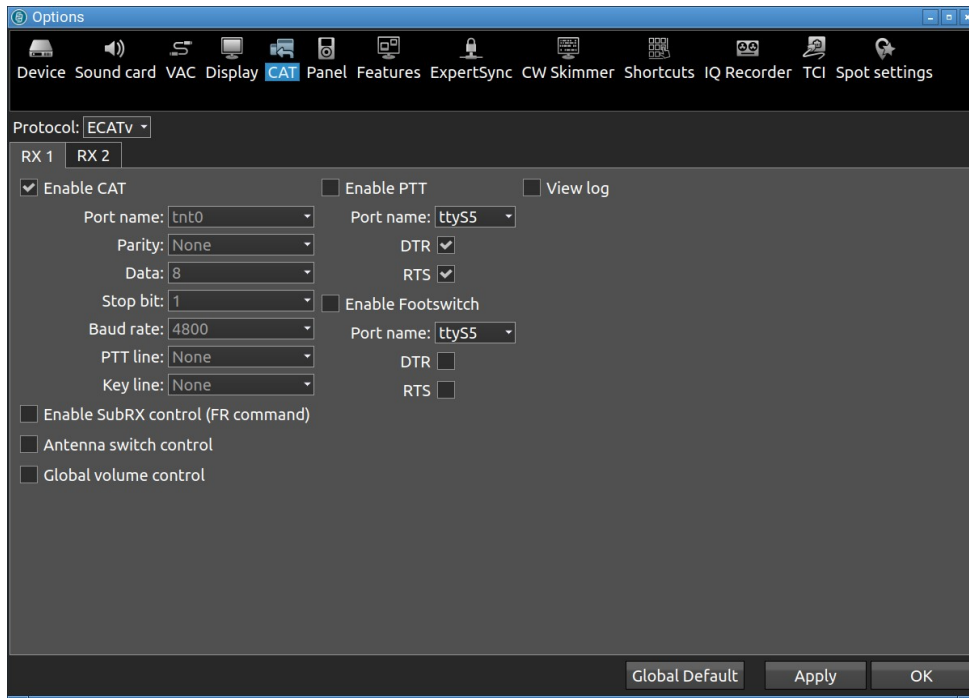
```
tty0tty
```

`tty0tty` creates four pairs ports in `/dev/`

```
/dev/tnt0 <=> /dev/tnt1  
/dev/tnt2 <=> /dev/tnt3  
/dev/tnt4 <=> /dev/tnt5  
/dev/tnt6 <=> /dev/tnt7
```

so we can use them as follows:

In **ExpertSDR2 software** (Options →CAT) define CAT on port name `tnt0`



In `/.wine/dosdevices`

create a symlink `tnt1` (which is paired to `tnt0`) to `com3`

```
ln -s /dev/tnt1 ~/.wine/dosdevices/com1
```

Your new `tnt` ports won't work unless they are `chmoded`

```
sudo chmod 666 /dev/tnt*
```

To make the `chmod` persistent across the boot, create an `udev` file named

```
80-tntport.rules
```

with a single line:

```
KERNEL=="tnt[0-7]*", MODE="0666"
```

and put it into your

```
etc/udev/rules.d
```

(applies to Ubuntu, other distros may have elsewhere in `/etc`)

Finally, open `TR4W` and define the radio on the serial port you already created.

