

This document contains Release Notes and relevant notes for setting up your linux system to use the FLI PCIE Fibre card driver. For information pertaining the libflipro API interface that uses the driver, consult the Release Notes and associated documentation shipped with the API.

Linux Set Up Notes

1. In order for normal user applications to have access to the devices created by the driver, you need to update the udev rules on your system. Along with the driver, you will find a file called 20-flipcie-udev.rules. Copy this file to the /etc/udev/rules.d directory on your system. You may of course modify this file to suit your needs. It is provided as a working sample to get your development started.
2. The linux driver uses a fair amount of memory for the streaming feature. Your current linux system boot setup may or may not be suitable to support the feature. First, your computer must be configured with 32GB of RAM. In addition, you may have to increase the amount of memory given to the linux kernel at boot for the SWIOTLB (Software Input Output Translation Lookaside Buffer).

- To increase the TLB size on Ubuntu with Grub:

- cd to /etc/default

- edit the /etc/default/grub file with your favorite text editor.

- Look for the 'swiotlb' line and change the value to be at least 262144. If the value is already larger, you do not need to change it. If it is smaller, do not make it larger than 262144!

```
GRUB_CMDLINE_LINUX="swiotlb=262144"
```

- Run the update-grub command

```
sudo update-grub
```

- To increase the TLB size on CentOS with Grub:

- cd to /etc/default

- edit the /etc/default/grub file with your favorite text editor.

- Look for the 'swiotlb' line and change the value to be at least 262144. If the value is already larger, you do not need to change it. If it is smaller, do not make it larger than 262144! If the line does not exist, add it at the end.

```
GRUB_CMDLINE_LINUX="swiotlb=262144"
```

- Update the grub command line with

```
sudo grub2-mkconfig -o /boot/efi/EFI/centos/grub.cfg
```

Linux PCIE Fibre Card Driver Release Notes

Driver Version: 1.1.9

Date: 02/04/2021

General: Initial Release.

Issues Addressed:

1. None.

Features Added:

1. None.

Features Removed:

1. None.
