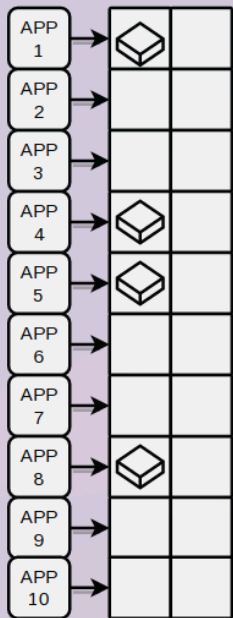


## Applications



## Packet Driver

### App Buffer



### Send Buffer



### Send Thread

1. Blocking Read on Send Buffer
2. Store in temp PD
3. Attempt to send packet through Network Driver
4. Attempt to return temp PD to pool (NON BLOCK)
5. If fail, return to free PD store (NON BLOCK)

### Receive Thread

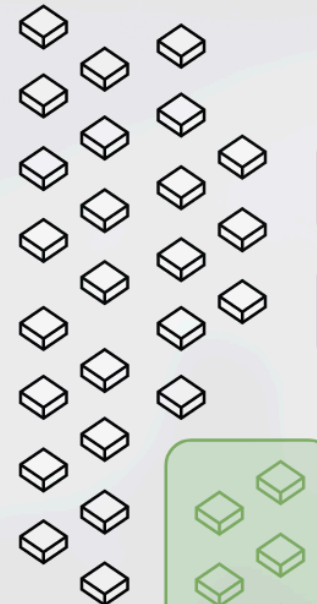
1. Retrieve PD from pool (NON BLOCKING)
2. if fail, retrieve from free PD store (NON BLOCK)
3. Register on the Network Device
4. Wait for the network to populate the PD
5. Get pid from PD
6. NON BLOCKING write to APP buffer based on PID

### PD Pool



## Packet Descriptor Store

32 Total Packet Descriptors  
5 written to PD Pool when Initialized



Returns PD to store after APP is done

## Network Device Driver