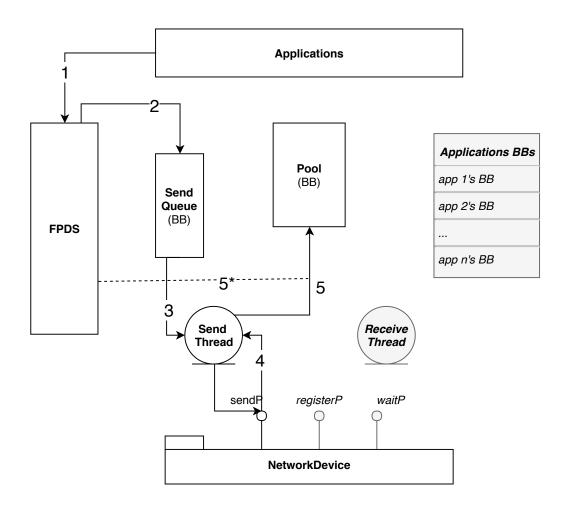
Application sending packet to the network



^{*}BB stands for Bounded Buffer

Application is any of the applications with PID 0-10 during the execution of the simulated network

- 1. Application grabs a packet descriptor from the FPDS
- Application calls either blockingSendPacket or nonBlockingSendPacket, attempting to put it into the send queue (a bounded buffer)
- 3. The PacketDescriptor put into the send queue by the application is picked up by the send thread for processing
- The send thread repeatedly attempts to call sendPacket on the network device with the appropriate PacketDescriptor, failing after N tries
- 5. Regardless of whether the send thread succeeded, it tries to return the packet descriptor to the pool
 - 5*. If the packet fails to go in the pool, it is returned to the FPDS

^{*}FPDS stands for FreePacketDescriptorStore

^{*}Send Queue is implemented with a Bounded Buffer (not a queue)