liber::netapp

PacketRouter is composed of a hash map of PacketSubscribers, each with a unique subscriber ID. PacketSubscribers can subscribe to packets from any number of interfaces, where a unique router ID identifies each interface. All PacketSubscribers must implement the subscriber interface providing an implementation for the “put” method, which is how the router routers data to a subscriber. Much flexibility is afforded by the pure virtual “put” method, but the programmer should take care because a poor implementation could quickly lead to performance anti-patterns. For example, it is generally a bad idea to implement a time intensive task in the “put” method because, depending on router implementation, this will other subscribers from receiving their packets in a timely fashion and potentially result in dropped packets. This problem is exacerbated when a poorly implemented subscriber subscribes to more than one router.