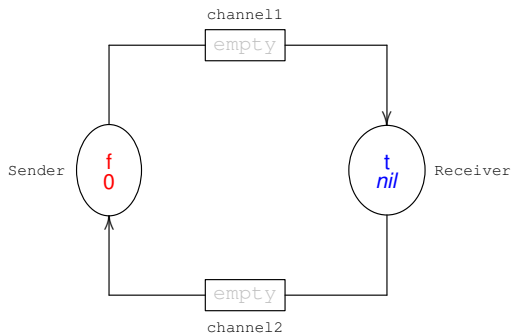


Alternating Bit Protocol (ABP) - Data types

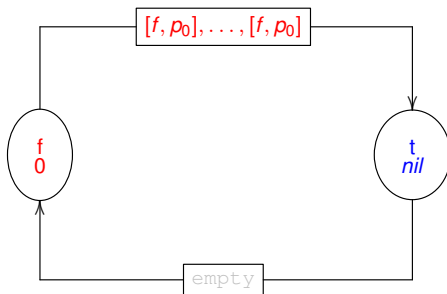
Constructor	Meaning
<code>init : $\rightarrow \text{Sys}$</code>	Initial state
<code>rec1 : $\text{Sys} \rightarrow \text{Sys}$</code>	Sender receives bits
<code>rec2 : $\text{Sys} \rightarrow \text{Sys}$</code>	Receiver receives pairs of bits & packets
<code>send1 : $\text{Sys} \rightarrow \text{Sys}$</code>	Sender sends pairs of bits & packets
<code>send2 : $\text{Sys} \rightarrow \text{Sys}$</code>	Receiver sends bits
<code>drop1 : $\text{Sys} \rightarrow \text{Sys}$</code>	Drops one element of channel1
<code>drop2 : $\text{Sys} \rightarrow \text{Sys}$</code>	Drops one element of channel2
<code>dup1 : $\text{Sys} \rightarrow \text{Sys}$</code>	Duplicates one element of channel1
<code>dup2 : $\text{Sys} \rightarrow \text{Sys}$</code>	Duplicates one element of channel2

Observer	Meaning
<code>channel1 : $\text{Sys} \rightarrow \text{Channel1}$</code>	Sender-to-Receiver channel
<code>channel2 : $\text{Sys} \rightarrow \text{Channel2}$</code>	Receiver-to-Sender channel
<code>bit1 : $\text{Sys} \rightarrow \text{Bit}$</code>	Sender's bit
<code>bit2 : $\text{Sys} \rightarrow \text{Bit}$</code>	Receiver's bit
<code>next : $\text{Sys} \rightarrow \text{Nat}$</code>	Number of packet sent by Sender
<code>list : $\text{Sys} \rightarrow \text{List}$</code>	Lists of packets received by Receiver

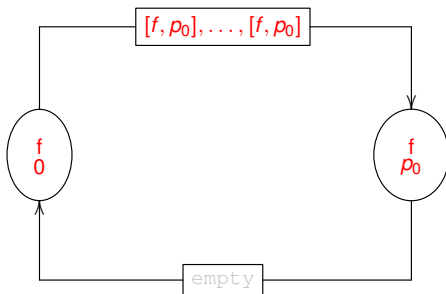
ABP snapshot I



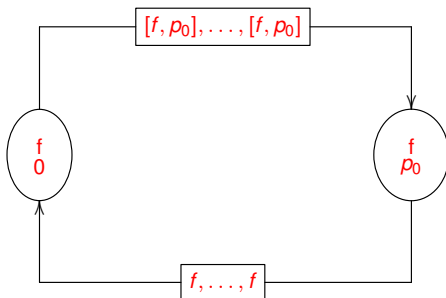
ABP snapshot II



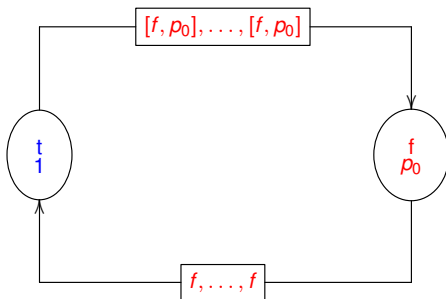
ABP snapshot III



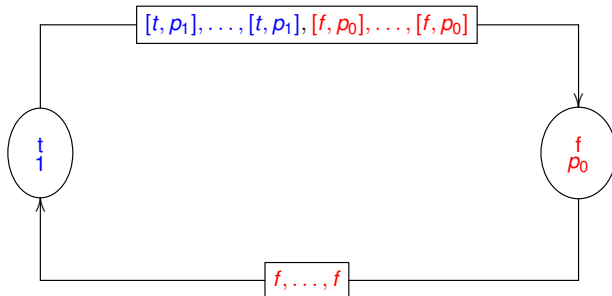
ABP snapshot IV



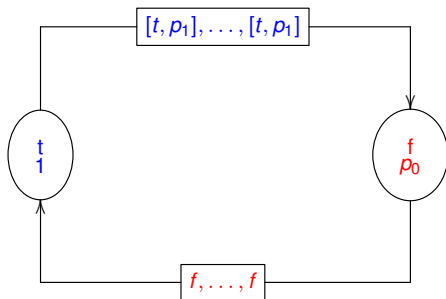
ABP snapshot V



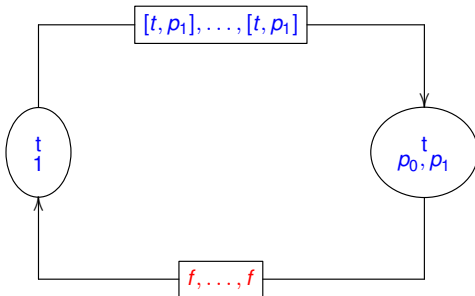
ABP snapshot VI



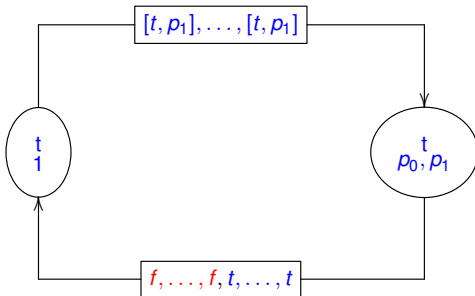
ABP snapshot VII



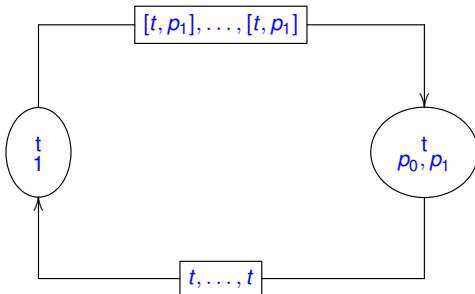
ABP snapshot VIII



ABP snapshot IX



ABP snapshot X



ABP snapshot XI

