

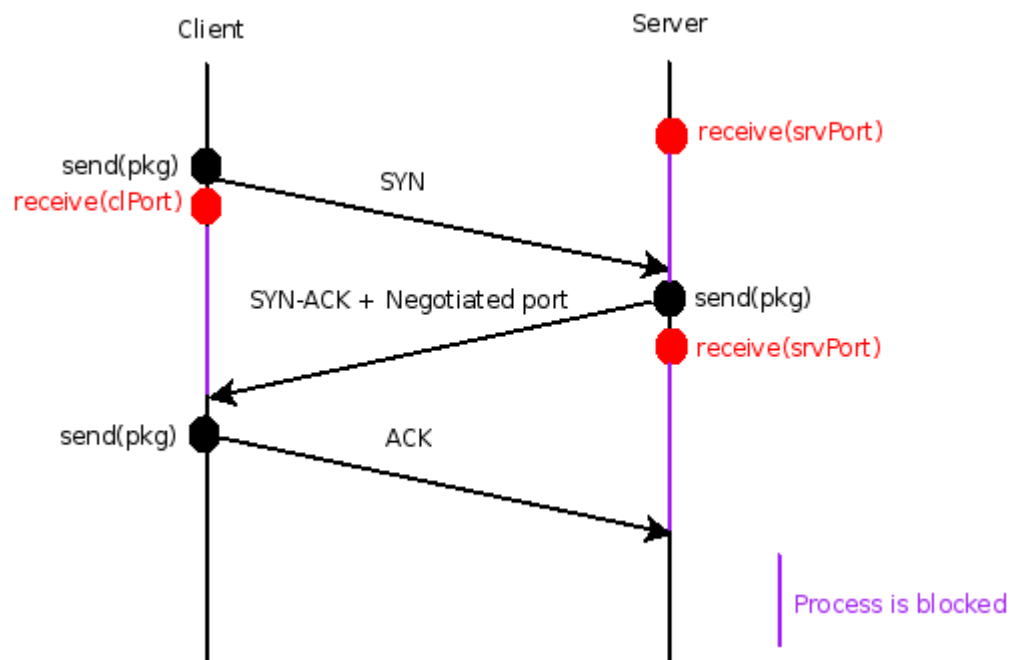
## Message sequence charts

### Connection

The connection process concerns to the methods `accept()` and `connect()` of A1, and it is implemented with a three-way handshake using the methods `send()` and `receive()` of A2.

The flags are enabled through the set methods provided by the class `KtnDatagram`.

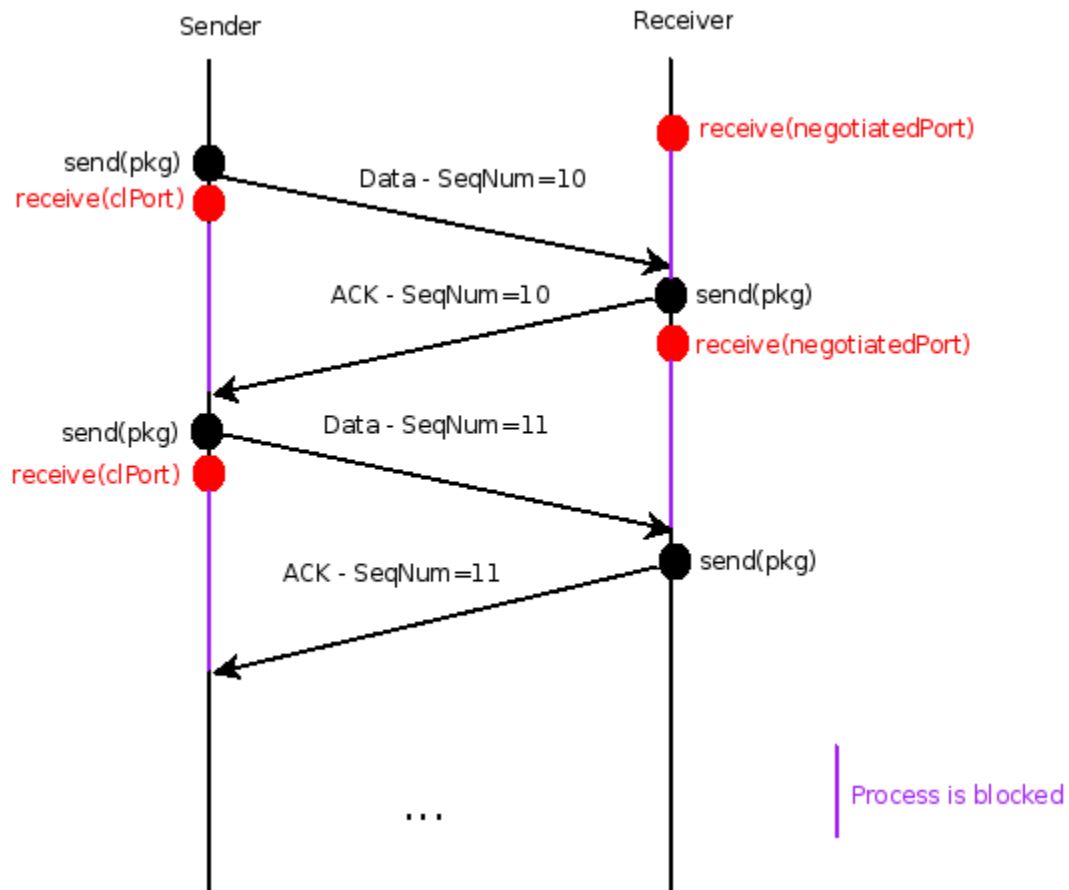
Once the connection is established, the client will connect with the server using another port which has been negotiated during this process.



## Sending and receiving

The methods `send()` and `receive()` of A1 are implemented by `send()` and `receive()` of A2 in an scenario without errors as is shown in this chart (errors handling is explained in subsequent sections).

As well as the flags, the access to the sequence number is provided by `KtnDatagram` methods.



This example suppose the server as receiver to illustrate the use of the negotiated port in next stages, but the server could also be the sender.

## Disconnection

As in the termination of the connection process in TCP, we are going to implement a four-way handshake, including a TIME\_WAIT state where the client retransmits the final ACK in case the ACK is lost. This scenario refers to the method close() in A1.

